

1999

## EC99-872-S Revised Nebraska Crop Budgets

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# Nebraska Crop Budgets

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# Table of Contents

Resource Persons .....	iv
Crops Budgeting Procedure .....	v
Prices Used for Crop Budgets .....	viii

	<i>Budget</i>	<i>Page</i>
--	---------------	-------------

## **Panhandle**

Gravity Irrigated Crops .....		1
Sugar Beets .....	A2 .....	4
Dry Edible Beans .....	A3 .....	5
Corn for Grain .....	A4 .....	6
Corn for Silage .....	A5 .....	7
Establish Alfalfa with Oats .....	A6 .....	8
Alfalfa Hay .....	A7 .....	9

## Center Pivot Irrigated Crops .....

Sugar Beets .....	A9 .....	13
Dry Edible Beans .....	A10 .....	14
Corn for Grain .....	A11 .....	15
Winter Wheat .....	A12 .....	16
Alfalfa Hay .....	A13 .....	17

## Non-Irrigated Crops .....

Winter Wheat, Stubble Mulch Fallow .....	A15 .....	21
Winter Wheat, Eco-Fallow (Chemical and Tillage Combination) .....	A16 .....	22
Sunflower, Wheat-Sunflower Rotation, Stubble Mulch Fallow .....	A17 .....	23
Millet, Wheat-Millet Rotation, Stubble Mulch Fallow .....	A18 .....	24

## **Southwest** .....

Corn for Grain, Gravity Irrigated .....	B2 .....	32
Corn for Silage, Gravity Irrigated .....	B3 .....	33
Corn for Grain, Ditch Irrigated, Platte Valley .....	B4 .....	34
Corn for Grain, Ridge Planted, Gravity Irrigated .....	B5 .....	35
Corn for Grain, Center Pivot Irrigated, Fine Texture Soil .....	B6 .....	36
Corn in Rotation w/ Soybean, Pivot Irrigated, Fine Texture Soil .....	B7 .....	37
Corn for Grain, Center Pivot Irrigated, Sandy Soil .....	B8 .....	38
Pinto Beans, Center Pivot Irrigated .....	B9 .....	39
Soybeans, Center Pivot Irrigated .....	B10 .....	40
Soybean in Rotation w/ Corn, Roundup Ready, Pivot Irrigated .....	B11 .....	41
Fall Seed Alfalfa, Center Pivot Irrigated .....	B12 .....	42

	<i>Budget</i>	<i>Page</i>
Alfalfa Hay, Center Pivot Irrigated .....	B13 .....	43
Alfalfa Hay, Sub-Irrigated, Platte Valley .....	B14 .....	44
Fall Seed Grass, Center Pivot Irrigated .....	B15 .....	45
Pasture, Center Pivot Irrigated .....	B16 .....	46
Wheat, Center Pivot Irrigated .....	B17 .....	47
Wheat, Stubble Mulch Fallow .....	B18 .....	48
Wheat, Clean-Till Fallow .....	B19 .....	49
Wheat, Continuous, Chemical Weed Control .....	B20 .....	50
Wheat, Followed by Corn, 3 Year Rotation, Eco-Fallow .....	B21 .....	51
Corn, Following Eco-Fallow Wheat .....	B22 .....	52
Grain Sorghum Following Eco-Fallow, Wheat in 3 Year Rotation .....	B23 .....	53
Grain Sorghum, Non-Irrigated .....	B24 .....	54
Grain Sorghum, Non-Irrigated, No-Till Continuous .....	B25 .....	55
Sunflower, Following Eco-Fallow Wheat .....	B26 .....	56
Cane Hay, Non-Irrigated .....	B27 .....	57
<b>North</b> .....		58
Corn for Grain, Center Pivot Irrigated .....	B28 .....	61
Corn for Silage, Center Pivot Irrigated .....	B29 .....	62
Establish Alfalfa, Center Pivot Irrigated .....	B30 .....	63
Alfalfa Hay, Center Pivot Irrigated .....	B31 .....	64
Establish Grass, Center Pivot Irrigated .....	B32 .....	65
Pasture, Center Pivot Irrigated .....	B33 .....	66
Native Hay, Wet Meadow .....	B34 .....	67
Native Hay, Upland .....	B35 .....	68
<b>Central</b> .....		69
Corn for Grain, Center Pivot Irrigated .....	C2 .....	73
Corn for Silage, Center Pivot Irrigated .....	C3 .....	74
Grain Sorghum for Grain, Limited Irrigation, Center Pivot .....	C4 .....	75
Corn for Grain, Gravity Irrigated .....	C5 .....	76
Corn for Silage, Gravity Irrigated .....	C6 .....	77
Soybeans, Gravity Irrigated .....	C7 .....	78
Establish Alfalfa, Gravity Irrigated .....	C8 .....	79
Alfalfa for Hay, Gravity Irrigated .....	C9 .....	80
Corn for Grain, Non-Irrigated, No-Till .....	C10 .....	81
Corn for Grain, Eco-Fallow, Follows Wheat in 3 Year Rotation .....	C11 .....	82
Corn for Silage, Non-Irrigated .....	C12 .....	83
Grain Sorghum for Grain, Non-Irrigated .....	C13 .....	84
Grain Sorghum for Grain, Eco-Fallow, Follows Wheat in 3 Yr Rot. ....	C14 .....	85
Grain Sorghum for Grain, Continuous, No-Till, Non-Irrigated .....	C15 .....	86
Soybeans, Non-Irrigated .....	C16 .....	87
Wheat for Grain, Continuous Cropped, Non-Irrigated .....	C17 .....	88



	<i>Budget</i>	<i>Page</i>
Wheat for Grain, Continuous, No-Till, Non-Irrigated .....	C18 .....	89
Wheat for Grain, Fallow Every Third Year .....	C19 .....	90
Establish Alfalfa, Non-Irrigated .....	C20 .....	91
Alfalfa Hay, Non-Irrigated .....	C21 .....	92
<b>Northeast</b> .....		93
Corn for Grain, Center Pivot Irrigated, Sandy Soils .....	D2 .....	96
Corn for Grain, Center Pivot Irrigated, Rolling Hills .....	D3 .....	97
Corn for Grain, Non-Irrigated .....	D4 .....	98
Corn for Grain, Till-Plant, Rolling Hills .....	D5 .....	99
Soybeans, Non-Irrigated .....	D6 .....	100
Soybeans, Center Pivot Irrigated .....	D7 .....	101
Oats, Non-Irrigated .....	D8 .....	102
Oats With Spring Alfalfa Seeding .....	D9 .....	103
Alfalfa Seeding .....	D10 .....	104
Establish Alfalfa, Sandy Soil, Fall Seeding .....	D11 .....	105
Alfalfa Hay, Large Round Baler .....	D12 .....	106
Alfalfa Hay, Small Square Baler .....	D13 .....	107
<b>East Central</b> .....		108
Corn for Grain, Gravity Irrigated .....	E1 .....	112
Corn for Grain, Center Pivot Irrigated .....	E2 .....	113
Soybeans, Center Pivot Irrigated .....	E3 .....	114
Corn for Grain, Non-Irrigated .....	E4 .....	115
No-Till Corn in Soybean Residue .....	E5 .....	116
Grain Sorghum, Non-Irrigated .....	E6 .....	117
Soybeans, Non-Irrigated .....	E7 .....	118
Soybeans, After Corn, No-Till .....	E8 .....	119
Wheat .....	E9 .....	120
Establish Alfalfa, Fall Seeded .....	E10 .....	121
Establish Alfalfa, Spring With Herbicide .....	E11 .....	122
Alfalfa Hay, Large Round Baler .....	E12 .....	123
Corn Silage, Center Pivot Irrigated .....	E13 .....	124
Oats, Non-Irrigated .....	E14 .....	126
<b>Southeast</b> .....		126
Corn for Grain, Center Pivot Irrigated .....	E16 .....	129
Corn for Silage, Center Pivot Irrigated .....	E17 .....	130
Corn for Grain, Non-Irrigated .....	E18 .....	131
Grain Sorghum, Non-Irrigated .....	E19 .....	132
Forage Sorghum Silage, Non-Irrigated .....	E20 .....	133
Soybeans, Non-Irrigated .....	E21 .....	134
Wheat .....	E22 .....	135

# Crop Budgets

Nebraska - 1999

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# Crop Budgeting Procedures

The crop budgets were developed with the aid of a computerized crop budgeting program.

A worksheet format has been used to make adjustments convenient. See "Your Estimate" column in each budget.

An example set of crop and machine operations were selected for each area. Representative field operating rates, fuel use, labor requirements, and materials needed have been budgeted for each crop. An annual use and years to trade were used to determine annual ownership costs for equipment. These assumptions are summarized at the beginning of each set of budgets. Although the budgets are titled by geographical areas of the state, the applicability of the budgets is determined more by climatic and soil conditions. Following is a summary of the budget areas:

- Panhandle:** The ditch irrigated budgets apply to irrigated farms in the North Platte Valley using water from the irrigation project ditches. The center pivot and dryland budgets apply to farms in the Panhandle region whose soil has a sandstone or sand and silt parent material.
- Southwest:** These budgets, unless otherwise specified, apply to the crops grown on upland areas in the Southwest part of the state. There also are some budgets which specifically apply to the Platte Valley in the western part of the state.
- North:** These budgets apply to crops grown in the Sandhills area which includes parts of Sheridan and Garden counties in the Panhandle.
- Central:** These budgets apply to irrigated and dryland farms in the south central part of Nebraska. Holdrege and Hastings soils are the predominant soil associations in this area.
- Northeast:** These budgets apply to the rolling hills area of the northeastern part of the state with Moody-Crofton soils. Some of the budgets specifically apply to the sandy areas of Pierce, Antelope and Holt counties.
- East Central:** The soils to which these budgets apply are flat to rolling glaciated soils of the Sharpsburg-Marshall-Shelby associations with Loess parent material.
- Southeast:** The soils to which these budgets apply are flat to rolling hills of Loess and Drift parent materials consisting of Crete, Fillmore, Wymore and Pawnee soil associations.

## **Cultural Practices and Yields**

Tillage practices and materials used in the budgets were based on farm record data, workshops with growers, consultations with Extension specialists in other disciplines, and the judgement of the farm management specialists. All practices specified may not be used by an individual farmer. The cost of those not used can easily be deleted from the budget.

Yields shown in the budgets are representative of county averages over several years, including years of low yields due to such factors as drought, hail and insect damage. No allowance was made for the expense of crop insurance, or the income from crop insurance proceeds, although space was provided for including crop insurance premiums.

## **Machinery Costs**

Prices for the machinery were collected from selected dealers in late 1998. Costing factors, based on information in the Agricultural Engineer's Yearbook specify repair rates and trade-in values as a proportion of list prices. The amount each machine was used annually and the years-to-trade then determines hourly repair costs and average annual depreciation and investment. The resulting repair cost estimates are averages over the years of use. Fuel consumption factors were based on Nebraska tractor test data.

Irrigation costs were calculated using prices of irrigation equipment collected in early 1998, engineering performance standards, and typical water application rates.

Current machinery and equipment prices are used to reflect repairs and ownership (depreciation and interest) costs in today's dollars. Custom rates for custom operations are based upon surveys conducted periodically.

## **Labor Costs**

Labor requirements were calculated from machinery accomplishment rates and adjusted through a labor multiplier for "nonfield" time required for crop production, such as getting machinery ready, driving to and from fields and hauling fertilizer and other supplies. For operation involving unattended machinery, such as irrigation, the labor multiplier reflects the labor required as a proportion of the machine time.

## **Interest Costs**

Interest rates for machinery and land are commercial rates that have been adjusted for current inflation rates. Interest was calculated on the average investment over the years of use. The resulting estimated interest costs are in current dollars and assume any equity funds are charged the same rate as borrowed funds.



## Overhead and Management Charges

Farm overhead expenses are budgeted at 5 percent of operating expenses. Overhead expenses include items which are normally not allocated to individual farm enterprises, yet are necessary to keep a business running. These include pickup expense, farm share of car expense, farm publications, unallocated farm utilities, cost of attending farm meetings and income tax preparation expense.

Management charges are budgeted on a per unit of production basis resulting in higher management charges for more productive land. Overhead and management charges are included so the total production cost will reflect a charge for all inputs used in the production process.

## Land and Irrigation Ownership Charges

The land prices budgeted are representative of the area. The average investment in any irrigation system is subtracted from the land price to determine a price for the bare land with no irrigation development. Irrigation ownership costs are shown separately as interest and depreciation.

# Prices used for 1999 Crop Budgets

Description	Unit	Price	Price per	
			Budget	Unit
Custom operations				
Aerial Spray	acre	\$4.50	\$4.50 / acre	
Apply Anhydrous	acre	6.00	6.00 / acre	
Bale small sq	bale	0.40	0.40 / bale	
Brdcast Spread	acre	4.00	4.00 / acre	
Broadcast Spray	acre	4.00	4.00 / acre	
Chop Silage	ton	4.50	4.50 / ton	
Drill	acre	8.00	8.00 / acre	
Drying	bu	0.10	0.10 / bu	
Load & Stack	bale	0.20	0.20 / bale	
Move Bales	bale	2.00	2.00 / bale	
Nemat Applic	acre	15.50	15.50 / acre	
Soil Test	test	15.00	15.00 / test	
Truck	bu	0.05	0.05 / bu	
Truck Silage	ton	2.50	2.50 / ton	
Truck Sugar Beets	ton	2.00	2.00 / ton	
Truck, cwt	cwt	0.13	0.13 / cwt	
Windrow	acre	8.00	8.00 / acre	
Fertilizer	N P K			
Ammon Sulfate	21-0-0-26s	ton	180.00	0.09 / lb
Anhy Ammonia	82-0-0	ton	210.00	0.13 / lb N
Di Ammonium Phosphate	18-46-0	ton	264.00	0.13 / lb
Dry Mix	30-10-0	ton	207.00	0.10 / lb
Liquid Mix	10-34-0	ton	237.00	1.35 / gal
	10-34-0-1Z	ton	284.21	1.61 / gal
Liquid N	28-0-0	ton	114.00	0.20 / lb N
Potass Sulphate	0-0-22-22s-11mg	ton	180.00	0.09 / lb
Sulfur	90%	ton	306.00	0.17 / lb S
Triple Super Phosphate	0-46-0	ton	254.00	0.28 / lb P2O5
Urea	46-0-0	ton	210.00	0.23 / lb N
Zinc Ammonium Acetate	10-0-0-10Z	ton	456.00	2.37 / gal
Fuel				
Diesel w/o tax	GAL	0.60	0.60 / GAL	
Elec Irrig	Kwh	0.04	0.04 / Kwh	
Hookup Charge	Kwh	30.00	30.00 / Kwh	
Herbicide				
2,4-D Amine	pt	1.50	1.50 / pt	
2,4-D Ester	pt	2.22	2.22 / pt	
Ally	oz	22.75	22.75 / oz	
Atrazine 4L	pt	1.63	1.63 / pt	
Atrazine 90DF	lb	2.87	2.87 / lb	
Balance	oz	7.95	7.95 / oz	
Banvel	pt	10.72	10.72 / pt	
Basagran	pt	9.34	9.34 / pt	
Betanex	pt	12.19	12.19 / pt	
Bicep II	qt	8.73	8.73 / qt	



**Prices used for 1999 Crop Budgets**

<b>Description</b>	<b>Unit</b>	<b>Price</b>	<b>Price per Budget Unit</b>
Bicep II Mag	qt	9.94	9.94 / qt
Bicep Lite II	qt	8.81	8.81 / qt
BicepII LiteMag	qt	13.25	13.25 / qt
Bladex 90DF	lb	5.90	5.90 / lb
Buctril	pt	7.14	7.14 / pt
Bullet	qt	4.73	4.73 / qt
Canopy	oz	2.61	2.61 / oz
Cobra	oz	1.03	1.03 / oz
Command	pt	9.77	9.77 / pt
Dual 8E	pt	8.63	8.63 / pt
Dual II Mag	pt	12.75	12.75 / pt
Eptam 7E	pt	4.13	4.13 / pt
Exceed	oz	11.20	11.20 / oz
Freedom	qt	3.00	3.00 / qt
Gramoxone Extra	pt	4.63	4.63 / pt
LandmasterBW	oz	0.16	0.16 / oz
Lasso 4EC	qt	5.75	5.75 / qt
Lasso II 15G	lb	0.95	0.95 / lb
Peak	oz	11.25	11.25 / oz
Prowl	pt	3.63	3.63 / pt
Pursuit +	pt	8.29	8.29 / pt
Pursuit DG	oz	15.25	15.25 / oz
Roneet 7E	pt	7.52	7.52 / pt
RoundupUltra	pt	5.91	5.91 / pt
Sencor DF	lb	19.20	19.20 / lb
Sonalan	pt	4.06	4.06 / pt
Spirit	oz	11.25	11.25 / oz
Synchrony	oz	24.00	24.00 / oz
<b>Insecticide</b>			
Asana	oz	1.09	1.09 / oz
Counter 20CR	lb	2.54	2.54 / lb
Cygon	pt	5.50	5.50 / pt
Dipel 10G	lb	1.19	1.19 / lb
Dipel ES	pt	4.95	4.95 / pt
Force 1.5G	lb	2.04	2.04 / lb
Furadan 15G	lb	8.46	8.46 / lb
Lorsban 15G	lb	1.68	1.68 / lb
Lorsban 4E	pt	7.50	7.50 / pt
Parathion 4E	lb	3.41	3.41 / lb
Pounce	oz	1.34	1.34 / oz
Sulfur Flowable	lb	0.25	0.25 / lb
Telone Nemat	gal	10.90	10.90 / gal
Tilt(Fungicide)	oz	2.62	2.62 / oz
Warrior, T	oz	2.42	2.42 / oz
<b>Labor</b>			
Haying	hr	6.50	6.50 / hr

# Prices used for 1999 Crop Budgets

Description	Unit	Price	Price per	
			Budget Unit	Unit
Move Cattle	acre	0.25	0.25 /	acre
Rogue Beans	acre	5.00	5.00 /	acre
Thin & Weed	acre	25.00	25.00 /	acre
Thinning	acre	15.00	15.00 /	acre
Weeding	acre	15.00	15.00 /	acre
Temp Fencing	acre	1.00	1.00 /	acre
Twine	bale	0.56	0.56 /	bale
Wire	bale	0.09	0.09 /	bale
Rental				
Anhy Applicator	acre	1.50	1.50 /	acre
BrdcastSpreader	acre	2.00	2.00 /	acre
BrdcastSpreader	acre	2.00	2.00 /	acre
Grain drill	acre	5.00	5.00 /	acre
Seeder-Packer	acre	3.75	3.75 /	acre
Seed				
Alfalfa w/inoc	lb	3.68	3.68 /	lb
Cane Hay, Sudan	lb	0.38	0.38 /	lb
Corn	bag	101.00	101.00 /	bag
Edible Beans	cwt	56.00	56.00 /	cwt
Grass	lb	3.50	3.50 /	lb
Millet	lb	0.33	0.33 /	lb
Oats	bu	5.50	5.50 /	bu
RReady Soybean	bag	24.00	24.00 /	bag
Sorghum	lb	1.10	1.10 /	lb
Sorghum Safened	lb	1.26	1.26 /	lb
Soybeans w/Inoc	bag	17.00	17.00 /	bag
STS Soybean	bag	16.50	16.50 /	bag
Sugar Beets	ac	22.17	22.17 /	ac
Sunflower	lb	2.04	2.04 /	lb
Wheat	lb	0.20	0.20 /	lb
Other				
Water Tax A2-A7	acre	25.00	25.00 /	acre
Water Tax B4	acre	19.50	19.50 /	acre

# Description of the Gravity Irrigated Budgets, Nebraska Panhandle

These budgets are intended to be representative of farms located in the North Platte Valley using irrigated project water.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

P1 1999 Machinery List-- Panhandle Gravity Irrigated									
						Current			
				Age at	Purchase	Ann'l	Yrs to	Trade	
<u>Code Machine</u>				<u>Purchase</u>	<u>Price</u>	<u>Use</u>	<u>Trade</u>	<u>Value</u>	<u>Repairs</u>
Power Units									
16	Tractor	130 hp	diesel MFWD	12 yr	7,200 hr	\$70,000	500 hr	18	\$11,236 \$3.40 /hr
17	Tractor	160 hp	diesel MFWD	0 yr	0 hr	82,632	600 hr	12	23,405 1.78 /hr
84	Combine	185 hp		0 yr	0 hr	113,000	200 hr	12	24,687 11.84 /hr
Implements									
22	Moldboard	Plow	5-18	0 yr	0 ac	\$12,591	300 ac	15	\$6,253 \$1.29 /ac
30	Tandem	Disk	21 Ft Fold	0 yr	0 ac	18,506	900 ac	15	4,737 0.44 /ac
34	Subsoiler			0 yr	0 ac	3,681	120 ac	15	1,828 0.06 /ac
38	Cultivator	6-30		0 yr	0 ac	4,204	750 ac	10	2,177 0.09 /ac
47	Rotary	Hoe	15 Ft	0 yr	0 ac	4,090	400 ac	15	1,047 0.03 /ac
49	Roller	Packer	15'	0 yr	0 ac	15,869	300 ac	15	4,062 0.34 /ac
66	Row Crop	Planter	6-30	0 yr	0 ac	16,711	500 ac	10	7,262 0.48 /ac
77	Sprayer	30 Ft		0 yr	0 ac	4,454	300 ac	20	1,261 0.09 /ac
79	Bean	Rod	15'	0 yr	0 ac	4,680	120 ac	15	1,198 0.12 /ac
81	Bean	Cutter	15'	0 yr	0 ac	6,350	120 ac	15	1,625 0.11 /ac
87	Corn	Head	6-30	0 yr	0 ac	26,055	760 ac	10	4,005 0.48 /ac
92	Pickup	Head		0 yr	0 ac	7,500	760 ac	10	1,153 0.09 /ac
99	Forage	Harvester	2 Row	0 yr	0 ac	21,985	240 ac	10	9,295 2.49 /ac
104	Sugar	Beet	Topper 6 Row	0 yr	0 ac	18,618	120 ac	15	4,765 0.63 /ac
107	Sugar	Beet	Lifter 4 Row	0 yr	0 ac	46,944	140 ac	15	12,015 6.88 /ac
114	Ditcher			0 yr	0 ac	3,800	400 ac	15	973 0.14 /ac
207	Corrigator			0 yr	0 ac	2,350	200 ac	10	1,217 0.09 /ac



1999 Operations List Panhandle Gravity Irrigated

Pl	Power	Imp	Energy/hr	Operation	Cost per Acre											Total
					Hrs / Acre	Labor@	Fuel&	Repairs		Deprec		THIII@	6.5%			
Operation	Code	Code		Rate	Labor	Mach	\$7.50	Lube	Power	Impl	Power	Impl	Power	Impl		
All Irrig.	Labor				4.00		30.00								30.00	
Apply Anhy	17	Incl	5.57 gal D:	8.50 Ac/hr	0.14	0.12	1.05	0.43	0.21		0.97		0.71		3.36	
Apply Nemat	Custom															
Bale	Custom															
Chop	17	99	5.57 gal D:	2.07 Ac/hr	0.58	0.48	4.35	1.77	0.86	2.49	3.97	5.29	2.90	4.41	26.04	
Combine	84	87	11.40 gal D:	4.44 Ac/hr	0.27	0.23	2.03	1.69	2.67	0.48	8.29	2.90	5.31	1.38	24.75	
Combine	84	92	9.81 gal D:	4.09 Ac/hr	0.29	0.24	2.18	1.58	2.89	0.09	9.00	0.84	5.76	0.40	22.73	
Corrigate	17	207	5.30 gal D:	4.90 Ac/hr	0.24	0.20	1.80	0.71	0.36	0.09	1.68	0.57	1.23	0.60	7.03	
Cut	16	81	6.36 gal D:	5.73 Ac/hr	0.21	0.17	1.58	0.73	0.59	0.11	1.14	2.62	0.96	2.25	9.98	
Defoliate	16	104	3.98 gal D:	5.60 Ac/hr	0.22	0.18	1.65	0.47	0.61	0.63	1.18	7.70	0.99	6.58	19.80	
Disc	17	30	8.48 gal D:	10.63 Ac/hr	0.11	0.09	0.83	0.50	0.16	0.44	0.74	1.02	0.54	0.87	5.10	
Ditch	16	114	6.36 gal D:	5.29 Ac/hr	0.23	0.19	1.73	0.80	0.65	0.14	1.24	0.47	1.04	0.40	6.48	
Drill	16	Rent	3.98 gal D:	4.70 Ac/hr	0.25	0.21	1.88	0.55	0.71		1.37		1.15		5.66	
Haul	Custom															
Hoe	16	47	3.98 gal D:	13.44 Ac/hr	0.08	0.07	0.60	0.18	0.24	0.03	0.46	0.51	0.38	0.43	2.83	
Lift	17	107	5.57 gal D:	2.80 Ac/hr	0.43	0.36	3.23	1.32	0.64	6.88	2.96	16.63	2.16	14.23	48.06	
Load & Stack	Custom															
Plant	16	66	3.18 gal D:	4.90 Ac/hr	0.24	0.20	1.80	0.42	0.68	0.48	1.31	1.89	1.10	1.62	9.29	
Plow	17	22	5.57 gal D:	2.89 Ac/hr	0.42	0.35	3.15	1.29	0.62	1.29	2.88	1.41	2.10	2.09	14.83	
Rod	16	79	6.36 gal D:	6.36 Ac/hr	0.19	0.16	1.43	0.67	0.54	0.12	1.04	1.93	0.88	1.65	8.27	
Roll	17	49	7.95 gal D:	6.55 Ac/hr	0.18	0.15	1.35	0.79	0.27	0.34	1.23	2.62	0.90	2.24	9.75	
Row Crop Cult	16	38	3.18 gal D:	2.50 Ac/hr	0.48	0.40	3.60	0.84	1.36	0.09	2.61	0.27	2.20	0.29	11.25	
Spray	Custom															
Spray in Tandem		77		10.63 Ac/hr		0.09				0.09		0.53		0.64	1.26	
Spread Fert.	16	Incl	3.98 gal D:	16.04 Ac/hr	0.07	0.06	0.53	0.16	0.20		0.39		0.33		1.61	
Subsoil	17	34	7.95 gal D:	6.58 Ac/hr	0.18	0.15	1.35	0.79	0.27	0.06	1.23	1.03	0.90	1.53	7.16	
Thin	Hire															
Thin & Weed	Hire															
Truck	Custom															
Truck & Pack	Custom															
Weed	Hire															
Windrow	Custom															

Diesel @ \$0.60 /gal



Budgeted Production Costs Summary  
Panhandle Gravity Irrigated 1999

Budget	A2	A3	A4	A5	A6	A7
Crop	Sugar	Dry	Corn	Corn	Estab	Hay
Description	Beets	Beans	Grain	Silage	Alfalfa	Alfalfa
	Gravity	Gravity	Gravity	Gravity	Gravity	Gravity
	Irrig	Irrig	Irrig	Irrig	Irrig	Irrig
					w/oats	
Yield	23.0 Ton Beets	20.0 Cwt Beans	140.0 Bu Corn	20.0 Ton Silage	2.5 Ton Hay Eq	6.0 Ton Hay
Mgt Fee/unit	\$2.00	\$2.10	\$0.25	\$2.00	\$25.00	\$6.00
Land Invest.	\$930	\$930	\$930	\$930	\$930	\$930
Unimp.	930	930	930	930	930	930
Irrig						
Mach Invest	\$791.13	\$538.40	\$285.83	\$305.21	\$304.44	\$33.34
Op Cost/ac	\$442.67	\$178.28	\$164.74	\$213.64	\$202.17	\$211.00
Overhead	22.13	8.91	8.24	10.68	10.11	10.55
Unpaid Mgt	46.00	42.00	35.00	40.00	62.50	36.00
Land Interest	37.20	37.20	37.20	37.20	37.20	37.20
Irrig Interest						
RE Taxes	\$16.28	\$16.28	\$16.28	\$16.28	\$16.28	\$16.28
Irrig Deprec						
Land Subtotal	\$53.48	\$53.48	\$53.48	\$53.48	\$53.48	\$53.48
Mach. Interest	\$51.42	\$35.00	\$18.58	\$19.84	\$19.79	\$2.17
Mach. Deprec	59.83	43.41	25.19	23.79	23.49	2.66
Mach. Subtotal	\$111.25	\$78.41	\$43.77	\$43.63	\$43.28	\$4.82
Total Owner Costs	\$164.72	\$131.88	\$97.25	\$97.10	\$96.75	\$58.30
Estab Costs						\$200.00
Years						7
Per Year						\$28.57
Total Cost/ac	\$675.52	\$361.07	\$305.23	\$361.42	\$371.53	\$344.42
Total Cost/unit	\$29.37	\$18.05	\$2.18	\$18.07	\$68.61	\$57.40

A2

Returns Above Operating Costs Budget Worksheet  
Sugar Beets, Gravity Irrigated

20 Acre-inches 23 Ton Beets

P1

99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Apply Nemat	Custom							
2	Apply Anhy	8.5 Ac/hr	0.14	0.12	0.43D	0.21		0.64	
3	Spread Fert.	16.04 Ac/hr	0.07	0.06	0.16D	0.21		0.37	
4	Disc	10.63 Ac/hr	0.11	0.09	0.53D	0.17	0.44	1.14	
5	Plow	2.89 Ac/hr	0.42	0.35	1.27D	0.62	1.29	3.18	
6	Roll	6.55 Ac/hr	0.18	0.15	0.80D	0.27	0.34	1.41	
7	Roll	6.55 Ac/hr	0.18	0.15	0.80D	0.27	0.34	1.41	
8	Spray in Tandem	10.63 Ac/hr		0.09			0.09	0.09	
9	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.69	0.48	1.60	
10	Hoe	13.44 Ac/hr	0.08	0.07	0.20D	0.25	0.03	0.48	
11	Row Crop Cult	2.5 Ac/hr	0.48	0.40	0.84D	1.36	0.09	2.29	
12	Row Crop Cult	2.5 Ac/hr	0.48	0.40	0.84D	1.36	0.09	2.29	
13	Thin	Hire							
14	Weed	Hire							
15	Weed	Hire							
16	Ditch	5.29 Ac/hr	0.23	0.19	0.79D	0.64	0.14	1.57	
17	Ditch	5.29 Ac/hr	0.23	0.19	0.79D	0.64	0.14	1.57	
18	All Irrig.	Labor	4.00						
19	Spray	Custom							
20	Defoliate	5.6 Ac/hr	0.22	0.18	0.47D	0.61	0.63	1.71	
21	Lift	2.8 Ac/hr	0.43	0.36	1.31D	0.64	6.88	8.83	
22	Truck	Custom							
23	Subsoil	6.58 Ac/hr	0.18	0.15	0.80D	0.27	0.06	1.13	

Subtotal 7.67 Hrs 10.46 8.21 11.05 \$29.72

Diesel 15.79 Gal @ \$0.60 \$9.47

Materials & Services	Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Sugar Beets	9	1 ac	22.17	22.17	\$22.17
Fertilizer	Anhy Ammonia	2	100 lb N	0.13	13.00	27.00
	0-46-0	3	50 lb P205	0.28	14.00	
Chemicals	Telone Nemat	1	12 gal	10.90	130.80	147.59
	Roneet 7E	8	2 pt	7.52	15.04	
	Sulfur Flowable	17	7 lb	0.25	1.75	
Custom	Nemat Applic	1	1 acre	15.50	15.50	66.00
	Aerial Spray	19	1 acre	4.50	4.50	
	Truck	22	23 ton	2.00	46.00	
Other	Thinning	13	1 acre	15.00	15.00	45.00
	Weeding	14	1 acre	15.00	15.00	
	Weeding	15	1 acre	15.00	15.00	
Rent	Water Tax	18	1 acre	25.00	25.00	27.00
	BrdcastSpreader	3	1 acre	2.00	2.00	
Subtotal					\$334.76	
Total Operating Costs excluding Interest & Unpaid Labor					\$364.48	
Interest on Oper. Capital \$364.48 @ 8.5% for 8 Months					20.65	
Unpaid Labor 7.67 Hours @ \$7.50 /hr					57.54	
Total Operating Costs					\$442.67	

Projected Returns

Beets

23 Ton

@

Total Returns

Net Return above Operating Costs



A3

## Returns Above Operating Costs Budget Worksheet

Dry Edible Beans, Gravity Irrigated

10 Acre-inches

20 Cwt Beans

P1

99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub-Total	Your Estimate
			Labor	Mach		Power	Impl		
1	Disc	10.63 Ac/hr	0.11	0.09	0.53D	0.17	0.44	1.14	
2	Disc	10.63 Ac/hr	0.11	0.09	0.53D	0.17	0.44	1.14	
3	Plow	2.89 Ac/hr	0.42	0.35	1.27D	0.62	1.29	3.18	
4	Roll	6.55 Ac/hr	0.18	0.15	0.80D	0.27	0.34	1.41	
5	Roll	6.55 Ac/hr	0.18	0.15	0.80D	0.27	0.34	1.41	
6	Spray in Tandem	10.63 Ac/hr		0.09			0.09	0.09	
7	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.69	0.48	1.60	
8	Hoe	13.44 Ac/hr	0.08	0.07	0.20D	0.25	0.03	0.48	
9	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.64	0.09	1.13	
10	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.64	0.09	1.13	
11	Ditch	5.29 Ac/hr	0.23	0.19	0.79D	0.64	0.14	1.57	
12	Weed	Hire							
13	All Irrig.	Labor	1.66						
14	Spray	Custom							
15	Cut	5.73 Ac/hr	0.20	0.17	0.73D	0.59	0.11	1.43	
16	Rod	6.36 Ac/hr	0.19	0.16	0.66D	0.53	0.12	1.31	
17	Combine	4.09 Ac/hr	0.29	0.24	1.58D	2.89	0.09	4.56	
18	Truck	Custom							
19	Disc	10.63 Ac/hr	0.11	0.09	0.53D	0.17	0.44	1.14	

Subtotal 4.46 Hrs 9.65 8.54 4.54 \$22.73

Diesel 14.41 Gal @ \$0.60 \$8.64

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Edible Beans	7	0.5	cwt	56.00	28.00	\$28.00	
Fertilizer	10-34-0-12	7	9	gal	1.61	14.49	14.49	
Chemicals	Eptam 7E	6	2.5	pt	4.13	10.33	24.77	
	Sonalan	6	2	pt	4.06	8.12		
	Asana	14	5.8	oz	1.09	6.32		
Custom	Aerial Spray	14	1	acre	4.50	4.50	7.10	
	Truck, cwt	18	20	cwt	0.13	2.60		
Other	Weeding	12	1	acre	15.00	15.00	40.00	
	Water Tax	13	1	acre	25.00	25.00		

Subtotal \$114.36

Total Operating Costs excluding Interest & Unpaid Labor \$137.09

Interest on Oper. Capital \$137.09 @ 8.5% for 8 Months 7.77

Unpaid Labor 4.46 Hours @ \$7.50 /hr 33.42

Total Operating Costs \$178.28

Projected Returns

Beans

20 Cwt

@

Total Returns

Net Return above Operating Costs

A4

## Returns Above Operating Costs Budget Worksheet

Corn for Grain, Gravity Irrigated

18 Acre-inches 140 Bu Corn

P1

99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Repairs			Sub-Total	Your Estimate
			Labor	Mach	Lube	Power	Impl		
1	Disc	10.63 Ac/hr	0.11	0.09	0.53D	0.17	0.44	1.14	
2	Apply Anhy	8.5 Ac/hr	0.14	0.12	0.43D	0.21		0.64	
3	Disc	10.63 Ac/hr	0.11	0.09	0.53D	0.17	0.44	1.14	
4	Spray in Tandem	6.55 Ac/hr		0.15			0.09	0.09	
5	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.69	0.48	1.60	
6	Hoe	13.44 Ac/hr	0.08	0.07	0.20D	0.25	0.03	0.48	
7	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.64	0.09	1.13	
8	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.64	0.09	1.13	
9	Ditch	5.29 Ac/hr	0.23	0.19	0.79D	0.64	0.14	1.57	
10	All Irrig.	Labor	2.50						
11	Combine	4.44 Ac/hr	0.28	0.23	1.69D	2.67	0.48	4.84	
12	Truck	Custom							

Subtotal 4.14 Hrs 5.40 6.08 2.28 \$13.76

Diesel 8.15 Gal @ \$0.60 \$4.89

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	5	0.38 bag	101.00	38.38	\$38.38	
Fertilizer	Anhy Ammonia	2	130 lb N	0.13	16.90	31.39	
	10-34-0-1Z	5	9 gal	1.61	14.49		
Chemicals	Lasso II 15G	4	5.5 lb	0.95	5.23	10.96	
	2,4-D Amine	9	0.25 pt	1.50	0.38		
	Banvel	9	0.5 pt	10.72	5.36		
Custom	Truck	12	140 bu	0.05	7.00	7.00	
Other	Water Tax	10	1 acre	25.00	25.00	25.00	
Subtotal						\$112.73	
Total Operating Costs excluding Interest & Unpaid Labor						\$126.49	
Interest on Oper. Capital \$126.49 @ 8.5% for 8 Months						7.17	
Unpaid Labor 4.14 Hours @ \$7.50 /hr						31.08	
Total Operating Costs						\$164.74	

## Projected Returns

Corn 140 Bu @

Crop Residue 1 AUM @

## Total Returns

Net Return above Operating Costs



A5

## Returns Above Operating Costs Budget Worksheet

Corn for Silage, Gravity Irrigated

18 Acre-inches

20 Ton Silage

P1

99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub-Total	Your Estimate
			Labor	Mach		Power	Impl		
1	Disc	10.63 Ac/hr	0.11	0.09	0.53D	0.17	0.44	1.14	
2	Apply Anhy	8.5 Ac/hr	0.14	0.12	0.43D	0.21		0.64	
3	Disc	10.63 Ac/hr	0.11	0.09	0.53D	0.17	0.44	1.14	
4	Spray in Tandem	10.63 Ac/hr		0.09			0.09	0.09	
5	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.69	0.48	1.60	
6	Hoe	13.44 Ac/hr	0.08	0.07	0.20D	0.25	0.03	0.48	
7	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.64	0.09	1.13	
8	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.64	0.09	1.13	
9	Ditch	5.29 Ac/hr	0.23	0.19	0.79D	0.64	0.14	1.57	
10	Spray in Tandem	10.63 Ac/hr	0.11	0.09			0.09	0.09	
11	All Irrig. Labor		2.50						
12	Chop	2.07 Ac/hr	0.58	0.48	1.77D	0.86	2.49	5.12	
13	Truck & Pack	Custom							

Subtotal 4.55 Hrs 5.48 4.27 4.39 \$14.14

Diesel 8.20 Gal @ \$0.60 \$4.92

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	5	0.38	bag	101.00	38.38	\$38.38	
Fertilizer	Anhy Ammonia	2	130	lb N	0.13	16.90	31.39	
	10-34-0-12	5	9	gal	1.61	14.49		
Chemicals	Lasso II 15G	4	5.5	lb	0.95	5.23	10.96	
	2,4-D Amine	10	0.25	pt	1.50	0.38		
	Banvel	10	0.5	pt	10.72	5.36		
Custom	Truck Silage	13	20	ton	2.50	50.00	50.00	
Other	Water Tax	11	1	acre	25.00	25.00	25.00	
Subtotal							\$155.73	
Total Operating Costs excluding Interest & Unpaid Labor							\$169.87	
Interest on Oper. Capital \$169.87 @ 8.5% for 8 Months							9.63	
Unpaid Labor 4.55 Hours @ \$7.50 /hr							34.14	
Total Operating Costs							\$213.64	

Projected Returns

Silage

20 Ton

@

Total Returns

Net Return above Operating Costs

A6

## Returns Above Operating Costs Budget Worksheet

Establish alfalfa with oats, Gravity Irrigated

 25 Acre-inches 1.5 Ton Oat haylage 2 Ton Hay P1  
 Cost per Acre 99

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub-Total	Your Estimate
			Labor	Mach		Power	Impl		
1	Plow	2.89 Ac/hr	0.42	0.35	1.27D	0.62	1.29	3.18	
2	Spread Fert.	16.04 Ac/hr	0.07	0.06	0.16D	0.21		0.37	
3	Roll	6.55 Ac/hr	0.18	0.15	0.80D	0.27	0.34	1.41	
4	Roll	6.55 Ac/hr	0.18	0.15	0.80D	0.27	0.34	1.41	
5	Drill	4.7 Ac/hr	0.25	0.21	0.56D	0.72		1.28	
6	Corrigate	4.9 Ac/hr	0.24	0.20	0.71D	0.36	0.09	1.16	
7	Windrow	Custom							
8	Chop	3.87 Ac/hr	0.31	0.26	0.95D	0.46	2.49	3.90	
9	Haul	Custom							
10	Windrow	Custom							
11	Bale	Custom							
12	Load & Stack	Custom							
13	All Irrig.	Labor	2.50						

Subtotal 4.16 Hrs 5.25 2.91 4.56 \$12.72

Diesel 7.91 Gal @ \$0.60 \$4.75

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Alfalfa w/inoc	5	12	lb	3.68	44.16	\$46.91	
	Oats	5	0.5	bu	5.50	2.75		
Fertilizer	0-46-0	2	50	lb P205	0.28	14.00	14.00	
Custom	Windrow	7	1	acre	8.00	8.00	56.20	
	Truck	9	1.5	ton	2.00	3.00		
	Windrow	10	1	acre	8.00	8.00		
	Bale small sq	11	62	bale	0.40	24.80		
	Load & Stack	12	62	bale	0.20	12.40		
Rent	Grain drill	5	1	acre	5.00	5.00	7.00	
	Brdcast Spreader	2	1	acre	2.00	2.00		
Other	Water Tax	13	1	acre	25.00	25.00	25.00	
Subtotal							\$149.11	
Total Operating Costs excluding Interest & Unpaid Labor							\$161.83	
Interest on Oper. Capital \$161.83 @ 8.5% for 8 Months							9.17	
Unpaid Labor 4.16 Hours @ \$7.50 /hr							31.17	
Total Operating Costs							\$202.17	

## Projected Returns

Oat haylage

1.5 Ton

@

Hay

2 Ton Hay

@

Total Returns

Net Return above Operating Costs



A7

Returns Above Operating Costs Budget Worksheet  
 Alfalfa hay, Gravity Irrigated  
 25 Acre-inches 6 Ton Hay

P1  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.16D	0.21			0.37	
2 Corrigan	4.9 Ac/hr	0.24	0.20	0.71D	0.36	0.09		1.16	
3 Windrow	Custom								
4 Bale	Custom								
5 Load & Stack	Custom								
6 Windrow	Custom								
7 Bale	Custom								
8 Load & Stack	Custom								
9 Windrow	Custom								
10 Bale	Custom								
11 Load & Stack	Custom								
12 All Irrig.	Labor	2.50							

Subtotal 2.81 Hrs 0.87 0.57 0.09 \$1.53

Diesel 1.30 Gal @ \$0.60 \$0.78

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	0-46-0	1	60 lb P205	0.28	16.80	\$16.80	
Custom	Windrow	3	1 acre	8.00	8.00	134.40	
	Bale small sq	4	76 bale	0.40	30.40		
	Load & Stack	5	76 bale	0.20	15.20		
	Windrow	6	1 acre	8.00	8.00		
	Bale small sq	7	62 bale	0.40	24.80		
	Load & Stack	8	62 bale	0.20	12.40		
	Windrow	9	1 acre	8.00	8.00		
	Bale small sq	10	46 bale	0.40	18.40		
	Load & Stack	11	46 bale	0.20	9.20		
Rent	BrdcastSpreader	1	1 acre	2.00	2.00	2.00	
Other	Water Tax	12	1 acre	25.00	25.00	25.00	
Subtotal						\$178.20	

Total Operating Costs excluding Interest & Unpaid Labor

\$179.73

Interest on Oper. Capital \$179.73 @ 8.5% for 8 Months

10.18

Unpaid Labor 2.81 Hours @ \$7.50 /hr

21.09

Total Operating Costs

\$211.00

Projected Returns

Hay

6 Ton

@

Total Returns

Net Return above Operating Costs



# Description of the Pivot Irrigated Budgets, Nebraska Panhandle

These budgets are intended to be representative of farms in the panhandle using center pivot irrigation.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

P2		1999 Machinery List-- Panhandle Pivot Irrigated							
				Current					
		Age at		Purchase		Ann'l		Yrs to	
<u>Code Machine</u>		<u>Purchase</u>		<u>Price</u>		<u>Use</u>		<u>Trade</u>	
								<u>Value Repairs</u>	
Power Units									
16	Tractor 130 hp diesel MFWD	12 yr	7,200 hr	\$70,000	300 hr	30	\$6,815	\$3.40 /hr	
17	Tractor 160 hp diesel MFWD	0 yr	0 hr	82,632	600 hr	12	23,405	1.78 /hr	
20	Tractor 225 hp diesel MFWD	0 yr	0 hr	110,000	600 hr	12	31,157	2.38 /hr	
84	Combine 185 hp	0 yr	0 hr	113,000	200 hr	15	16,550	15.13 /hr	
400	Pump 75 HP Elec 125' Lift(Pivot)	0 yr	0 hr	41,042	900 hr	20	0	0.35 /hr	
Implements									
23	Moldboard Plow 8-18	0 yr	0 ac	\$20,150	800 ac	12	\$10,221	\$1.62 /ac	
31	Tandem Disk H.D. 30 Ft Fold	0 yr	0 ac	30,843	1,500 ac	15	7,894	0.55 /ac	
34	Subsoiler	0 yr	0 ac	3,681	200 ac	20	1,789	0.09 /ac	
37	Field Cultivator 28 Ft	0 yr	0 ac	13,097	400 ac	12	6,643	0.10 /ac	
41	Cultivator 8-30	0 yr	0 ac	5,994	1,800 ac	7	3,266	0.13 /ac	
48	Rotary Hoe 21 Ft	0 yr	0 ac	6,081	600 ac	15	1,556	0.04 /ac	
50	Roller Packer 21'	0 yr	0 ac	26,980	1,000 ac	15	6,906	0.54 /ac	
60	Grain Drill 25 Ft	0 yr	0 ac	28,527	400 ac	20	8,074	0.55 /ac	
69	Row Crop Planter 8-30	0 yr	0 ac	22,544	500 ac	10	9,797	0.43 /ac	
77	Sprayer 30 Ft	0 yr	0 ac	4,454	1,100 ac	10	1,936	0.11 /ac	
80	Bean Rod 20'	0 yr	0 ac	6,240	400 ac	15	1,597	0.17 /ac	
82	Bean Cutter 20'	0 yr	0 ac	7,250	400 ac	15	1,856	0.16 /ac	
88	Corn Head 8-30	0 yr	0 ac	31,267	1,000 ac	10	3,719	0.52 /ac	
89	Combine Grain Head 15'	0 yr	0 ac	10,667	760 ac	10	1,640	0.13 /ac	
92	Pickup Head	0 yr	0 ac	7,500	760 ac	10	1,153	0.09 /ac	
104	Sugar Beet Topper 6 Row	0 yr	0 ac	18,618	300 ac	15	4,765	0.91 /ac	
205	Swather-Cond 24 Ft Pull type	0 yr	0 ac	25,000	800 ac	10	7,590	0.31 /ac	
206	Hay Baler Pto Twine	0 yr	0 ton	13,889	1,600 ton	6	7,197	1.04 /ton	
300	Sugar Beet Lifter 6 Row	0 yr	0 ac	61,222	300 ac	15	15,670	6.65 /ac	
502	Elec Pivot 35psi	0 yr	0 hr	33,000	900 hr	15	0	0.56 /hr	

1999 Operations List      Panhandle Pivot Irrigated

P2	Power	Imp	Operation	Cost per Acre											
				Hrs / Acre		Labor@	Fuel&	Repairs		Deprec		THII@		6.5%	
Operation	Code	Code	Energy/hr	Rate	Labor	Mach	\$7.50	Lube	Power	Impl	Power	Impl	Power	Impl	Total
All Irrig.	400	500	49.72 Kwh E.	800 GPM	0.34	5.61	2.55	10.74	1.96	0.35	2.28	2.28	1.56	1.56	23.27
Apply Anhy	17	Incl	5.57 gal D.	8.50 Ac/hr	0.14	0.12	1.05	0.43	0.21		0.97		0.71		3.36
Bale	17	206	2.12 gal D.	8.40 Ton/hr	0.14	0.12	1.05	0.17	0.21	1.04	0.98	0.70	0.72	0.45	5.31
Bandspray	16	77	2.12 gal D.	9.16 Ac/hr	0.13	0.11	0.98	0.15	0.37	0.11	0.77	0.23	0.93	0.20	3.73
Combine	84	88	11.40 gal D.	6.50 Ac/hr	0.18	0.15	1.35	1.13	2.27	0.52	4.82	2.75	3.31	1.23	17.39
Combine	84	89	9.81 gal D.	5.09 Ac/hr	0.24	0.20	1.80	1.29	3.03	0.13	6.43	1.19	4.42	0.56	18.85
Combine	84	92	9.81 gal D.	5.09 Ac/hr	0.24	0.20	1.80	1.29	3.03	0.09	6.43	0.84	4.42	0.40	18.29
Cut	16	82	6.36 gal D.	7.64 Ac/hr	0.16	0.13	1.20	0.55	0.44	0.16	0.91	0.90	1.11	0.77	6.04
Defoliate	16	104	3.98 gal D.	5.60 Ac/hr	0.22	0.18	1.65	0.47	0.61	0.91	1.26	3.08	1.54	2.63	12.15
Disc	20	31	19.08 gal D.	12.14 Ac/hr	0.10	0.08	0.75	1.01	0.19	0.55	0.88	1.02	0.64	0.87	5.91
Drill	16	60	6.89 gal D.	8.44 Ac/hr	0.14	0.12	1.05	0.55	0.41	0.55	0.84	2.56	1.03	3.06	10.04
Field cult	17	37	8.48 gal D.	13.53 Ac/hr	0.08	0.07	0.60	0.39	0.12	0.10	0.58	1.34	0.42	1.65	5.20
Haul & Stack	Custom														
Hoe	16	48	5.57 gal D.	17.92 Ac/hr	0.07	0.06	0.53	0.22	0.20	0.04	0.42	0.50	0.51	0.43	2.86
Lift	17	300	6.89 gal D.	2.80 Ac/hr	0.43	0.36	3.23	1.64	0.64	6.65	2.96	10.12	2.16	8.66	36.07
Plant	16	69	3.98 gal D.	6.53 Ac/hr	0.18	0.15	1.35	0.39	0.51	0.43	1.05	2.55	1.28	2.18	9.75
Plow	20	23	8.48	3.47 Ac/hr	0.35	0.29	2.63	1.62	0.69	1.62	3.18	1.03	2.32	1.27	14.36
Rod	17	80	6.36 gal D.	8.48 Ac/hr	0.14	0.12	1.05	0.50	0.21	0.17	0.99	0.77	0.72	0.66	5.07
Roll	17	50	7.95 gal D.	9.16 Ac/hr	0.13	0.11	0.98	0.58	0.20	0.54	0.90	1.34	0.66	1.14	6.35
Row Crop Cult	17	41	6.89 gal D.	7.05 Ac/hr	0.17	0.14	1.28	0.64	0.25	0.13	1.15	0.22	0.84	0.17	4.68
Spray	Custom														
Spray in Tandem		77		9.16 Ac/hr		0.11				0.11		0.23		0.20	0.54
Spread Fert.	16	Incl	3.98 gal D.	16.04 Ac/hr	0.07	0.06	0.53	0.16	0.20		0.42		0.51		1.82
Subsoil	20	34	7.95 gal D.	8.48 Ac/hr	0.14	0.12	1.05	0.63	0.29	0.09	1.31	0.47	0.96	0.90	5.71
Thin	Hire														
Thin & weed	Hire														
Truck	Custom														
Weed	Hire														
Windrow	17	205	7.95 gal D.	3.81 Ac/hr	0.31	0.26	2.33	1.36	0.46	0.31	2.14	2.18	1.56	1.39	11.73

Diesel@ \$0.60 /gal  
Elec@ \$0.060 /Kwh

If operation rate is other than Ac/hr  
costs shown above are for:  
10 Acre Inches  
1 tons/acre

Budgeted Production Costs Summary  
Panhandle Pivot Irrigated 1999

Budget Crop Description	A9 Sugar Beets Pivot Irrig	A10 Dry Beans Pivot Irrig	A11 Corn Grain Pivot Irrig	A12 Wheat Pivot Irrig	A13 Hay Alfalfa Pivot Irrig
Yield	20.0 Ton Beets	19.0 Cwt Beans	130.0 Bu Corn	65.0 Bu Wheat	6.0 Ton Hay
Mgt Fee/unit	\$2.00	\$2.10	\$0.25	\$0.35	\$6.00
Land Invest.	\$980	\$980	\$980	\$980	\$980
Unimp.	932	932	932	932	932
Irrig	48	48	48	48	48
Mach Invest	\$567.43	\$296.06	\$231.51	\$300.07	\$253.41
Op Cost/ac	\$228.68	\$154.46	\$160.76	\$107.19	\$165.17
Overhead	11.43	7.72	8.04	5.36	8.26
Unpaid Mgt	40.00	39.90	32.50	22.75	36.00
Land Interest	58.26	58.26	58.26	58.26	58.26
Irrig Interest	2.99	2.99	2.99	2.99	2.99
RE Taxes	\$17.15	\$17.15	\$17.15	\$17.15	\$17.15
Irrig Deprec	4.56	4.56	4.56	4.56	4.56
Land Subtotal	\$82.96	\$82.96	\$82.96	\$82.96	\$82.96
Mach. Interest	\$36.88	\$19.24	\$15.05	\$19.50	\$16.47
Mach. Deprec	42.32	24.00	20.04	22.33	23.56
Mach. Subtotal	\$79.20	\$43.25	\$35.09	\$41.83	\$40.03
Total Owner Costs	\$162.16	\$126.21	\$118.05	\$124.79	\$122.99
Estab Costs					\$201.45
Years					7
Per Year					\$28.78
Total Cost/ac	\$442.27	\$328.29	\$319.35	\$260.09	\$361.20
Total Cost/unit	\$22.11	\$17.28	\$2.46	\$4.00	\$60.20



Returns Above Operating Costs Budget Worksheet  
 Sugar Beets, Pivot Irrigated, Elec, 206' head  
 20 Acre-inches      20 Ton Beets

P2  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.20	0.55	1.79	
2	Apply Anhy	8.5 Ac/hr	0.14	0.12	0.43D	0.21		0.64	
3	Spread Fert.	16.04 Ac/hr	0.07	0.06	0.16D	0.21		0.37	
4	Plow	3.47 Ac/hr	0.35	0.29	1.61D	0.68	1.62	3.91	
5	Roll	9.16 Ac/hr	0.13	0.11	0.57D	0.19	0.54	1.30	
6	Roll	9.16 Ac/hr	0.13	0.11	0.57D	0.19	0.54	1.30	
7	Spray in Tandem	9.16 Ac/hr		0.11			0.11	0.11	
8	Plant	6.53 Ac/hr	0.18	0.15	0.40D	0.52	0.43	1.35	
9	Hoe	17.92 Ac/hr	0.07	0.06	0.20D	0.19	0.04	0.43	
10	Row Crop Cult	5.8 Ac/hr	0.20	0.17	0.78D	0.31	0.13	1.22	
11	Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.65D	0.25	0.13	1.03	
12	Bandspray	9.16 Ac/hr	0.13	0.11	0.15D	0.37	0.11	0.63	
13	Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.65D	0.25	0.13	1.03	
14	Bandspray	9.16 Ac/hr	0.13	0.11	0.15D	0.37	0.11	0.63	
15	Weed Hire								
16	All Irrig.	800 GPM	0.67	11.22	21.47E	3.93	0.35	25.75	
17	Defoliate	5.6 Ac/hr	0.22	0.18	0.47D	0.61	0.91	1.99	
18	Lift	2.8 Ac/hr	0.43	0.36	1.62D	0.64	6.65	8.91	
19	Truck Custom								
20	Subsoil	8.48 Ac/hr	0.14	0.12	0.62D	0.28	0.09	0.99	

Subtotal      3.45 Hrs      31.54      9.40      12.41      \$53.35

Diesel      15.29 Gal @ \$0.60 \$9.17  
 Electricity      557.86 KWH @ \$0.038 \$21.20

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Sugar Beets	8	1	ac	22.17	22.17	\$22.17	
Fertilizer	Anhy Ammonia	2	100	lb N	0.13	13.00	27.00	
	0-46-0	3	50	lb P205	0.28	14.00		
Chemicals	Roneet 7E	7	2	pt	7.52	15.04	15.04	
Custom	Truck	19	20	ton	2.00	40.00	40.00	
Rental	BrdcastSpreader	3	1	acre	2.00	2.00	2.00	
Other	Weeding	15	1	acre	15.00	15.00	32.40	
	Hookup Charge	16	0.58	Kwh	30.00	17.40		
Subtotal							\$138.61	
Total Operating Costs excluding Interest & Unpaid Labor							\$191.96	
Interest on Oper. Capital      \$191.96 @ 8.5% for 8 Months							10.88	
Unpaid Labor      3.45 Hours @ \$7.50 /hr							25.84	
Total Operating Costs							\$228.68	

Projected Returns  
 Beets

20 Ton @

Total Returns

Net Return above Operating Costs

A10

**Returns Above Operating Costs Budget Worksheet**  
**Dry Edible Beans, Pivot Irrigated, Elec., 206' Head**

10 Acre-inches

19 Cwt Beans

P2

99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub-Total	Your Estimate
			Labor	Mach		Power	Impl		
1	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.20	0.55	1.79	
2	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.20	0.55	1.79	
3	Spray in Tandem	9.16 Ac/hr		0.11			0.11	0.11	
4	Plant	6.53 Ac/hr	0.18	0.15	0.40D	0.52	0.43	1.35	
5	Hoe	17.92 Ac/hr	0.07	0.06	0.20D	0.19	0.04	0.43	
6	Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.65D	0.25	0.13	1.03	
7	Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.65D	0.25	0.13	1.03	
8	All Irrig.	800 GPM	0.34	5.61	10.74E	1.96	0.35	13.05	
9	Spray	Custom							
10	Cut	7.64 Ac/hr	0.16	0.13	0.55D	0.45	0.16	1.16	
11	Rod	8.48 Ac/hr	0.14	0.12	0.50D	0.21	0.17	0.88	
12	Combine	5.09 Ac/hr	0.24	0.20	1.27D	2.97	0.09	4.33	
13	Truck	Custom							
14	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.20	0.55	1.79	
Subtotal			1.75 Hrs		18.08	7.40	3.25	\$28.73	
Diesel			10.99 Gal @ \$0.60		\$6.59				
Electricity			278.93 KWH @ \$0.038		\$10.60				

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Edible Beans	4	0.5 cwt	56.00	28.00	\$28.00	
Fertilizer	10-34-0-1Z	2	8 gal	1.61	12.88	12.88	
Chemicals	Eptam 7E	3	2.5 pt	4.13	10.33	24.77	
	Sonalan	3	2 pt	4.06	8.12		
	Asana	9	5.8 oz	1.09	6.32		
Custom	Aerial Spray	9	1 acre	4.50	4.50	6.97	
	Truck, cwt	13	19 cwt	0.13	2.47		
Other	Weeding	11	1 acre	15.00	15.00	32.40	
	Hookup Charge	8	0.58 Kwh	30.00	17.40		
Subtotal						\$105.02	
Total Operating Costs excluding Interest & Unpaid Labor						\$133.74	
Interest on Oper. Capital		\$133.74 @	8.5%	for 8 Months		7.58	
Unpaid Labor		1.75	Hours @	\$7.50	/hr	13.14	
Total Operating Costs						\$154.46	
Projected Returns							
Beans		19	Cwt	@			
Total Returns							
Net Return above Operating Costs							



A11

Returns Above Operating Costs Budget Worksheet  
 Corn for Grain, Pivot Irrigated, Elec, 206' Head  
 18 Acre-inches 130 Bu Corn

P2  
99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Repairs			Sub-Total	Your Estimate
			Labor	Mach	Lube	Power	Impl		
1	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.20	0.55	1.79	
2	Apply Anhy	8.5 Ac/hr	0.14	0.12	0.43D	0.21		0.64	
3	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.20	0.55	1.79	
4	Spray in Tandem	9.16 Ac/hr		0.11			0.11	0.11	
5	Plant	6.53 Ac/hr	0.18	0.15	0.40D	0.52	0.43	1.35	
6	Hoe	17.92 Ac/hr	0.07	0.06	0.20D	0.19	0.04	0.43	
7	Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.65D	0.25	0.13	1.03	
8	Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.65D	0.25	0.13	1.03	
9	All Irrig.	800 GPM	0.61	10.10	19.33E	3.53	0.35	23.21	
10	Combine	6.5 Ac/hr	0.18	0.15	1.16D	2.33	0.52	4.01	
11	Truck	Custom							

Subtotal 1.71 Hrs 24.90 7.68 2.79 \$35.37

Diesel 8.29 Gal @ \$0.60 \$4.97  
 Electricity 502.17 KWH @ \$0.038 \$19.08

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	5	0.38 bag	101.00	38.38	\$38.38	
Fertilizer	Anhy Ammonia	2	130 lb N	0.13	16.90	31.39	
	10-34-0-1Z	5	9 gal	1.61	14.49		
Chemicals	Lasso II 15G	4	5.5 lb	0.95	5.23	10.96	
	2,4-D Amine	9	0.25 pt	1.50	0.38		
	Banvel	5	0.5 pt	10.72	5.36		
Custom	Truck	11	130 bu	0.05	6.50	6.50	
Other	Hookup Charge	9	0.58 Kwh	30.00	17.40	17.40	
Subtotal						\$104.63	
Total Operating Costs excluding Interest & Unpaid Labor						\$140.00	
Interest on Oper. Capital \$140.00 @ 8.5% for 8 Months						7.93	
Unpaid Labor 1.71 Hours @ \$7.50 /hr						12.83	
Total Operating Costs						\$160.76	

## Projected Returns

Corn 130 Bu @  
 Total Returns  
 Net Return above Operating Costs



A12

## Returns Above Operating Costs Budget Worksheet

Winter Wheat, Pivot Irrigated, Elec, 206' Head

10 Acre-inches

65 Bu Wheat

P2

99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub-Total	Your Estimate
			Labor	Mach		Power	Impl		
1	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.20	0.55	1.79	
2	Plow	3.47 Ac/hr	0.35	0.29	1.61D	0.68	1.62	3.91	
3	Apply Anhy	8.5 Ac/hr	0.14	0.12	0.43D	0.21		0.64	
4	Spread Fert.	16.04 Ac/hr	0.07	0.06	0.16D	0.21		0.37	
5	Field cult	13.53 Ac/hr	0.08	0.07	0.41D	0.13	0.10	0.64	
6	Field cult	13.53 Ac/hr	0.08	0.07	0.41D	0.13	0.10	0.64	
7	Drill	8.44 Ac/hr	0.14	0.12	0.54D	0.40	0.55	1.49	
8	All Irrig.	800 GPM	0.34	5.61	10.74E	1.96	0.35	13.05	
9	Combine	5.09 Ac/hr	0.24	0.20	1.27D	2.97	0.13	4.37	
10	Truck	Custom							

Subtotal 1.55 Hrs 16.61 6.89 3.40 \$26.90

Diesel 8.87 Gal @ \$0.60 \$5.32

Electricity 278.93 KWH @ \$0.038 \$10.60

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Wheat	7	90	lb	0.20	18.00	\$18.00	
Fertilizer	Anhy Ammonia	3	90	lb N	0.13	11.70	22.90	
	0-46-0	4	40	lb P205	0.28	11.20		
Custom	Truck	10	65	bu	0.05	3.25	3.25	
Rental	BrdcastSpreader	4	1	acre	2.00	2.00	2.00	
Other	Hookup Charge	8	0.58	Kwh	30.00	17.40	17.40	
Subtotal							\$63.55	
Total Operating Costs excluding Interest & Unpaid Labor							\$90.45	
Interest on Oper. Capital		\$90.45 @ 8.5% for 8 Months					5.13	
Unpaid Labor		1.55 Hours @ \$7.50 /hr					11.61	
Total Operating Costs							\$107.19	

Projected Returns

Wheat

65 Bu

@

Total Returns

Net Return above Operating Costs

A13

Returns Above Operating Costs Budget Worksheet  
 Alfalfa Hay, Pivot Irrigated, Elec, 206' Head  
 25 Acre-inches 6 Ton Hay

P2  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Spread Fert.	16.04 Ac/hr	0.07	0.06	0.16D	0.21		0.37	
2	Windrow	3.81 Ac/hr	0.31	0.26	1.38D	0.47	0.31	2.16	
3	Bale .33	8.4 Ton/hr	0.29	0.24	0.33D	0.42	2.09	2.84	
4	Haul & Stack	Custom							
5	Windrow	3.81 Ac/hr	0.31	0.26	1.38D	0.47	0.31	2.16	
6	Bale .33	8.4 Ton/hr	0.29	0.24	0.33D	0.42	2.09	2.84	
7	Haul & Stack	Custom							
8	Windrow	3.81 Ac/hr	0.31	0.26	1.38D	0.47	0.31	2.16	
9	Bale .34	8.4 Ton/hr	0.29	0.24	0.34D	0.43	2.09	2.86	
10	Haul & Stack	Custom							
11	All Irrig.	800 GPM	0.84	14.03	26.84E	4.91	0.35	32.10	

Subtotal 2.71 Hrs 32.14 7.80 7.55 \$47.49

Diesel 7.97 Gal @ \$0.60 \$4.78  
 Electricity 697.57 KWH @ \$0.038 \$26.51

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Fertilizer	0-46-0	1	60	lb P205	0.28	16.80	\$16.80	
Custom	Load & Stack	4	76	bale	0.20	15.20	36.80	
	Load & Stack	7	62	bale	0.20	12.40		
	Load & Stack	10	46	bale	0.20	9.20		
Rental	Brdcast Spreader	1	1	acre	2.00	2.00	2.00	
Other	Wire	3	76	bale	0.09	6.84	33.96	
	Wire	6	62	bale	0.09	5.58		
	Wire	9	46	bale	0.09	4.14		
	Hookup Charge	11	0.58	Kwh	30.00	17.40		

Subtotal \$89.56

Total Operating Costs excluding Interest & Unpaid Labor \$137.05

Interest on Oper. Capital \$137.05 @ 8.5% for 8 Months 7.77

Unpaid Labor 2.71 Hours @ \$7.50 /hr 20.35

Total Operating Costs \$165.17

Projected Returns

Hay 6 Ton @

Total Returns

Net Return above Operating Costs

# Description of the Non-irrigated Budgets, Nebraska Panhandle

These budgets are intended to be representative of summer fallow winter wheat farms in the panhandle.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets. NOTE: Actual equipment requirements vary depending on the fallow tillage used.

1999 Machinery List--- Panhandle Dryland Crops									
<u>Code Machine</u>		Age at <u>Purchase</u>		<u>Purchase</u> <u>Price</u>	Current	<u>Yrs to</u> <u>Trade</u>	<u>Trade</u> <u>Value</u>	<u>Repairs</u>	
					<u>Ann'l</u> <u>Use</u>				
Power Units									
16	Tractor 130 hp diesel MFWD	10 yr	8,000 hr	\$70,000	270 hr	30	\$7,647	\$3.38 /hr	
19	Tractor 200 hp diesel MFWD	0 yr	0 hr	99,474	800 hr	12	26,973	2.86 /hr	
84	Combine 185 hp	0 yr	0 hr	113,000	200 hr	10	31,193	9.69 /hr	
Implements									
25	Chisel Plow 23 Ft	0 yr	0 ac	\$14,462	1,600 ac	12	\$7,336	\$0.35 /ac	
31	Tandem Disk H.D. 30 Ft Fold	0 yr	0 ac	30,843	2,200 ac	10	8,699	0.54 /ac	
37	Field Cultivator 28 Ft	0 yr	0 ac	13,097	2,200 ac	10	6,781	0.18 /ac	
41	Cultivator 8-30	0 yr	0 ac	5,994	150 ac	20	2,913	0.02 /ac	
60	Grain Drill 25 Ft	0 yr	0 ac	28,527	600 ac	10	12,397	0.49 /ac	
69	Row Crop Planter 8-30	0 yr	0 ac	22,544	500 ac	10	9,797	0.43 /ac	
77	Sprayer 30 Ft	0 yr	0 ac	4,454	2,200 ac	5	2,358	0.11 /ac	
92	Pickup Head	0 yr	0 ac	7,500	760 ac	10	1,153	0.09 /ac	
111	Grain Auger 6"x61'	0 yr	0 bu000	2,550	40 bu000	20	241	0.09 /bu000	
122	Rod Weeder	0 yr	0 ac	27,000	1,600 ac	15	6,911	0.59 /ac	
204	Combine Grain Head 30'	0 yr	0 ac	18,611	600 ac	12	2,519	0.05 /ac	
210	Fallow Master	0 yr	0 ac	19,700	800 ac	15	9,784	0.21 /ac	



1999 Operations List Panhandle Dryland Crops

P3 Operation	Power Code	Imp Code	Energy/hr		Operation Rate	Hrs / Acre		Cost per Acre								Total
						Labor	Mach	Labor@ \$7.50	Fuel& Lube	Repairs		Deprec		THII@ 6.5%		
												Power	Impl	Power	Impl	
Apply Anhy	19	Incl	5.57 gal	D:	12.73 Ac/hr	0.10	0.08	0.75	0.29	0.23		0.60		0.43		2.30
Auger	16	111	2.12 gal	D:	2,500 Bu/hr	0.05	0.04	0.38	0.06	0.14	0.01	0.31	0.29	0.38	0.24	1.81
Chisel	19	25	10.60 gal	D:	12.85 Ac/hr	0.10	0.08	0.75	0.56	0.23	0.35	0.60	0.37	0.43	0.45	3.75
Combine	84	92	9.81 gal	D:	5.09 Ac/hr	0.24	0.20	1.80	1.29	1.94	0.09	8.18	0.84	4.95	0.40	19.49
Combine	84	204	13.78 gal	D:	5.09 Ac/hr	0.24	0.20	1.80	1.82	1.94	0.05	8.18	2.24	4.95	1.22	22.20
Disc	19	31	19.08 gal	D:	13.92 Ac/hr	0.08	0.07	0.60	0.88	0.20	0.54	0.53	1.01	0.38	0.62	4.75
Drill	16	60	6.89 gal	D:	8.44 Ac/hr	0.14	0.12	1.05	0.55	0.41	0.49	0.92	2.69	1.15	2.30	9.57
Field Cult	19	37	8.48 gal	D:	14.05 Ac/hr	0.08	0.07	0.60	0.39	0.20	0.18	0.53	0.29	0.38	0.30	2.87
Fallow Master	19	27	10.60 gal	D:	16.00 Ac/hr	0.07	0.06	0.53	0.42	0.17	0.35	0.45	0.37	0.32	0.45	3.07
Plant	19	69	3.98 gal	D:	6.53 Ac/hr	0.18	0.15	1.35	0.39	0.43	0.43	1.13	2.55	0.81	2.18	9.27
Rod Weed	19	122	9.81 gal	D:	17.45 Ac/hr	0.07	0.06	0.53	0.39	0.17	0.59	0.45	0.84	0.32	0.72	4.01
Row Crop Cult	16	41	6.89 gal	D:	7.05 Ac/hr	0.17	0.14	1.28	0.64	0.47	0.02	1.08	1.03	1.34	1.96	7.82
Spray	Custom															
Sprayer in tandem		77			14.05 Ac/hr		0.07				0.11		0.19		0.11	0.48
Spread Fert.	16	Rent	3.98 gal	D:	16.04 Ac/hr	0.07	0.06	0.53	0.16	0.20		0.46		0.58		2.06
Truck	Custom															
Windrow	Custom															

Diesele@ \$0.60 /gal

If operation rate is other than Ac/hr  
costs shown above are for:

100 bushels/acre

Budgeted Production Costs Summary  
Panhandle Dryland Crops 1999

Budget Crop Description	A15 Wheat Stubble Mulch Fallow	A16 Wheat Chemical Tillage Combo	A17 Sunflower ff wheat	A18 Millet rotated with wheat fallow
Yield	35.0 Bu Wheat	35.0 Bu Wheat	10.0 Cwt Seed	20.0 Cwt Millet
Mgt Fee/unit	\$0.35	\$0.35	\$1.00	\$0.50
Land Invest.	\$390	\$390	\$390	\$390
Unimp.	390	390	390	390
Irrig				
Mach Invest	\$235.34	\$195.19	\$253.91	\$164.74
Op Cost/ac	\$40.77	\$47.80	\$46.13	\$49.40
Overhead	2.04	2.39	2.31	2.47
Unpaid Mgt	12.25	12.25	10.00	10.00
Land Interest	35.10	35.10	26.33	35.10
Irrig Interest				
RE Taxes	\$13.65	\$13.65	\$10.24	\$13.65
Irrig Deprec				
Land Subtotal	\$48.75	\$48.75	\$36.56	\$48.75
Mach. Interest	\$15.30	\$12.69	\$16.50	\$10.71
Mach. Deprec	20.47	17.52	20.93	14.75
Mach. Subtotal	\$35.77	\$30.21	\$37.43	\$25.45
Total Owner Costs	\$84.52	\$78.96	\$73.99	\$74.20
Estab Costs				
Years				
Per Year				
Total Cost/ac	\$139.58	\$141.40	\$132.43	\$136.07
Total Cost/unit	\$3.99	\$4.04	\$13.24	\$6.80

A15

Returns Above Operating Costs Budget Worksheet  
 Winter Wheat of wheat/fallow rotation, stubble mulch  
 35 Bu Wheat

P3  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Fallow Master	16 Ac/hr	0.07	0.06	0.44D	0.18	0.35		0.97	
2 Fallow Master	16 Ac/hr	0.07	0.06	0.44D	0.18	0.35		0.97	
3 Fallow Master	16 Ac/hr	0.07	0.06	0.44D	0.18	0.35		0.97	
4 Fallow Master	16 Ac/hr	0.07	0.06	0.44D	0.18	0.35		0.97	
5 Apply Anhy	12.73 Ac/hr	0.10	0.08	0.29D	0.23			0.52	
6 Rod Weed	17.45 Ac/hr	0.07	0.06	0.37D	0.16	0.59		1.12	
7 Rod Weed	17.45 Ac/hr	0.07	0.06	0.37D	0.16	0.59		1.12	
8 Drill	8.44 Ac/hr	0.14	0.12	0.54D	0.40	0.49		1.43	
9 Combine	5.09 Ac/hr	0.24	0.20	1.79D	1.90	0.05		3.74	
10 Truck	Custom								
11 Auger	2500 Bu/hr	0.01	0.01	0.02D	0.05	0.00		0.07	
Subtotal		0.92 Hrs		5.14	3.62	3.12		\$11.88	

Diesel 7.77 Gal @ \$0.60 \$4.66

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	8	45 lb	0.20	9.00	\$9.00	
Fertilizer	Anhy Ammonia	5	40 lb N	0.13	5.20	9.40	
	0-46-0	8	15 lb P205	0.28	4.20		
Custom	Truck	10	35 bu	0.05	1.75	1.75	
Subtotal						\$20.15	
Total Operating Costs excluding Interest & Unpaid Labor						\$32.03	
Interest on Oper. Capital		\$32.03 @ 8.5% for 8 Months				1.81	
Unpaid Labor		0.92 Hours @ \$7.50 /hr				6.93	
Total Operating Costs						\$40.77	

Projected Returns

Wheat

35 Bu

@

Total Returns

Net Return above Operating Costs



A16

Returns Above Operating Costs Budget Worksheet  
 Winter Wheat of wheat/fallow rot., chemical & tillage  
 35 Bu Wheat

P3  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spray	Custom								
2 Fallow Master	16 Ac/hr	0.07	0.06	0.44D	0.18	0.35		0.97	
3 Fallow Master	16 Ac/hr	0.07	0.06	0.44D	0.18	0.35		0.97	
4 Apply Anhy	12.73 Ac/hr	0.10	0.08	0.29D	0.23			0.52	
5 Rod Weed	17.45 Ac/hr	0.07	0.06	0.37D	0.16	0.59		1.12	
6 Drill	8.44 Ac/hr	0.14	0.12	0.54D	0.40	0.49		1.43	
7 Combine	5.09 Ac/hr	0.24	0.20	1.79D	1.90	0.05		3.74	
8 Truck	Custom								
9 Auger	2500 Bu/hr	0.01	0.01	0.02D	0.05	0.00		0.07	
Subtotal		0.71 Hrs		3.89	3.10	1.83		\$8.82	

Diesel 5.91 Gal @ \$0.60 \$3.55

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	6	45 lb	0.20	9.00	\$9.00	
Fertilizer	Anhy Ammonia	4	70 lb N	0.13	9.10	9.10	
Chemicals	Atrazine 4L	1	1 pt	1.63	1.63	7.54	
	RoundupUltra	1	1 pt	5.91	5.91		
Custom	Broadcast Spray	1	1 acre	4.00	4.00	5.75	
	Truck	8	35 bu	0.05	1.75		
Subtotal						\$31.39	
Total Operating Costs excluding Interest & Unpaid Labor						\$40.21	
Interest on Oper. Capital \$40.21 @ 8.5% for 8 Months						2.28	
Unpaid Labor 0.71 Hours @ \$7.50 /hr						5.31	
Total Operating Costs						\$47.80	

Projected Returns

Wheat

35 Bu

@

Total Returns

Net Return above Operating Costs

A17

Returns Above Operating Costs Budget Worksheet  
 Sunflower, wheat/sunflower/fallow rot., stubble mulch  
 10 Cwt Seed

P3  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Fallow Master	16 Ac/hr	0.07	0.06	0.44D	0.18	0.35		0.97	
2 Chisel	12.85 Ac/hr	0.10	0.08	0.54D	0.22	0.35		1.11	
3 Apply Anhy	12.73 Ac/hr	0.10	0.08	0.29D	0.23			0.52	
4 Disc	13.92 Ac/hr	0.08	0.07	0.90D	0.21	0.54		1.65	
5 Field Cult	14.05 Ac/hr	0.08	0.07	0.40D	0.20	0.18		0.78	
6 Sprayer in tand	14.05 Ac/hr		0.07			0.11		0.11	
7 Rod Weed	17.45 Ac/hr	0.07	0.06	0.37D	0.16	0.59		1.12	
8 Plant	6.53 Ac/hr	0.18	0.15	0.40D	0.44	0.43		1.27	
9 Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.65D	0.48	0.02		1.15	
10 Combine	5.09 Ac/hr	0.24	0.20	1.27D	1.90	0.09		3.26	
11 Truck	Custom								

Subtotal 1.09 Hrs 5.26 4.02 2.67 \$11.95

Diesel 7.97 Gal @ \$0.60 \$4.78

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sunflower	8	5 lb	2.04	10.20	\$10.20	
Fertilizer	Anhy Ammonia	3	40 lb N	0.13	5.20	5.20	
Chemicals	Prowl	6	2 pt	3.63	7.26	7.26	
Custom	Truck, cwt	11	10 cwt	0.13	1.30	1.30	
Subtotal						\$23.96	
Total Operating Costs excluding Interest & Unpaid Labor						\$35.91	
Interest on Oper. Capital \$35.91 @ 8.5% for 8 Months						2.03	
Unpaid Labor 1.09 Hours @ \$7.50 /hr						8.19	
Total Operating Costs						\$46.13	

## Projected Returns

Seed 10 Cwt @

Total Returns

Net Return above Operating Costs

A18

**Returns Above Operating Costs Budget Worksheet**  
 Millet, Wheat/millet rotation, stubble mulch fallow  
 20 Cwt Millet

P3  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Fallow Master	16 Ac/hr	0.07	0.06	0.44D	0.18	0.35	0.97	
2	Fallow Master	16 Ac/hr	0.07	0.06	0.44D	0.18	0.35	0.97	
3	Spray	Custom							
4	Apply Anhy	12.73 Ac/hr	0.10	0.08	0.29D	0.23		0.52	
5	Drill	8.44 Ac/hr	0.14	0.12	0.54D	0.40	0.49	1.43	
6	Spray	Custom							
7	Windrow	Custom							
8	Combine	5.09 Ac/hr	0.24	0.20	1.27D	1.90	0.09	3.26	
9	Truck	Custom							
Subtotal			0.62 Hrs		2.98	2.89	1.28	\$7.15	

Diesel 4.51 Gal @ \$0.60 \$2.70

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Millet	5	12 lb	0.33	3.96	\$3.96	
Fertilizer	Anhy Ammonia	4	40 lb N	0.13	5.20	5.20	
Chemicals	RoundupUltra	3	1 pt	5.91	5.91	7.41	
	2,4-D Amine	6	1 pt	1.50	1.50		
Custom	Broadcast Spray	3	1 acre	4.00	4.00	18.60	
	Broadcast Spray	6	1 acre	4.00	4.00		
	Windrow	7	1 acre	8.00	8.00		
	Truck, cwt	9	20 cwt	0.13	2.60		
Subtotal						\$35.17	
Total Operating Costs excluding Interest & Unpaid Labor						\$42.32	
Interest on Oper. Capital		\$42.32 @ 8.5% for 8 Months				2.40	
Unpaid Labor		0.62 Hours @ \$7.50 /hr				4.68	
Total Operating Costs						\$49.40	

## Projected Returns

Millet

20 Cwt

@

## Total Returns

## Net Return above Operating Costs



# Description of the Crop Budgets for Southwest Nebraska

Due to variations in soils, precipitation, topography, depth to water table, etc., one set of operations cannot be selected as typical. Therefore, the crop budgets represent acreages, practices, and machinery sizes that are deemed representative of the area. An attempt has been made also to use machinery sizes that are consistent with the acreages farmed.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

SW		1999 Machinery List-- Southwestern Nebraska						
				Current				
		Age at	Purchase	Ann'l	Yrs to	Trade		
<u>Code</u>	<u>Machine</u>	<u>Purchase</u>	<u>Price</u>	<u>Use</u>	<u>Trade</u>	<u>Value</u>	<u>Repairs</u>	
Power Units								
15	Tractor 105 hp diesel MFWD	12 yr	4,800 hr	\$52,000	500 hr	20	\$7,581	\$2.31 /hr
17	Tractor 160 hp diesel MFWD	0 yr	0 hr	82,632	400 hr	12	24,668	1.19 /hr
84	Combine 185 hp	0 yr	0 hr	113,000	200 hr	10	31,193	9.69 /hr
94	Swather-Cond 16 Ft Self-Prop	0 yr	0 hr	68,800	150 hr	10	20,887	6.19 /hr
400	Pump 75 HP Elec 125' Lift(Pivot)	0 yr	0 hr	41,042	900 hr	20	0	0.35 /hr
401	Pump 80 HP Diesel 125' Lift w/reuse	0 yr	0 hr	69,069	900 hr	22	0	1.10 /hr
403	Pump 105 HP Diesel 200' Lift(Pivot)	0 yr	0 hr	48,883	900 hr	17	0	0.69 /hr
404	Pump 100 HP Elec 200' Lift(Pivot)	0 yr	0 hr	47,733	900 hr	20	0	0.36 /hr
Implements								
25	Chisel Plow 23 Ft	0 yr	0 ac	\$14,462	600 ac	15	\$7,183	\$0.26 /ac
31	Tandem Disk H.D. 30 Ft Fold	0 yr	0 ac	30,843	1,100 ac	15	7,894	0.48 /ac
37	Field Cultivator 28 Ft	0 yr	0 ac	13,097	1,200 ac	8	6,989	0.13 /ac
41	Cultivator 8-30	0 yr	0 ac	5,994	600 ac	15	2,977	0.08 /ac
45	Rod Weeder 24'	0 yr	0 ac	17,500	500 ac	15	4,479	0.31 /ac
48	Rotary Hoe 21 Ft	0 yr	0 ac	6,081	200 ac	15	1,556	0.02 /ac
49	Roller Packer 15'	0 yr	0 ac	15,869	300 ac	15	4,062	0.34 /ac
53	Spike Tooth harrow 24 ft	0 yr	0 ac	2,100	150 ac	20	1,021	0.02 /ac

SW

## 1999 Machinery List-- Southwestern Nebraska

Code Machine	Age at		Purchase Price	Current		Yrs to Trade	Trade Value	Repairs
	Purchase			Ann'l Use				
61 Grain Drill 30 Ft	0 yr	0 ac	34,743	800 ac	15	12,279	0.61 /ac	
69 Row Crop Planter 8-30	0 yr	0 ac	22,544	500 ac	7	11,035	0.38 /ac	
75 Boom Sprayer 50 Ft	0 yr	0 ac	5,653	450 ac	20	1,600	0.07 /ac	
77 Sprayer 30 Ft	0 yr	0 ac	4,454	1,100 ac	10	1,936	0.11 /ac	
82 Bean Cutter 20'	0 yr	0 ac	7,250	200 ac	10	2,045	0.08 /ac	
87 Corn Head 6-30	0 yr	0 ac	26,055	760 ac	10	4,005	0.48 /ac	
88 Corn Head 8-30	0 yr	0 ac	31,267	1,000 ac	10	3,719	0.52 /ac	
91 Combine Grain Hd 20'	0 yr	0 ac	13,389	1,000 ac	10	1,593	0.12 /ac	
92 Pickup Head	0 yr	0 ac	7,500	760 ac	10	1,153	0.09 /ac	
94 Swather-Cond 16 Ft Self-Prop	0 yr	0 hr	68,800	150 hr	10	20,887	6.19 /hr	
95 Hay Swather-Cond 12 Ft	0 yr	0 ac	21,800	500 ac	15	5,319	0.79 /ac	
99 Forage Harvester 2 Row	0 yr	0 ac	21,985	150 ac	10	9,295	1.88 /ac	
100 Hay Baler Sm Sq Wire	0 yr	0 ton	17,389	400 ton	15	5,862	0.89 /ton	
101 Round Baler 1500 Lb	0 yr	0 ton	19,840	800 ton	10	8,388	1.36 /ton	
103 1 Ton Hay Stacker	0 yr	0 ac	23,016	200 ac	15	7,759	0.99 /ac	
108 Corn Stalk Chopper 8-30"	0 yr	0 ac	8,510	500 ac	12	2,357	0.57 /ac	
111 Grain Auger 6"x61'	0 yr	0 bu000	2,550	150 bu000	20	241	0.26 /bu000	
123 Min-Til Planter 6-36	0 yr	0 ac	28,000	500 ac	7	13,706	0.62 /ac	
124 Cultivator Hi Res 6-36	0 yr	0 ac	9,800	1,000 ac	10	5,074	0.20 /ac	
125 Grain Hd 20' w/sunflower pan	0 yr	0 ac	16,389	400 ac	10	3,651	0.05 /ac	
210 Fallow Master	0 yr	0 ac	19,700	600 ac	15	9,784	0.19 /ac	
500 Diesel Pivot 35psi	0 yr	0 hr	34,700	900 hr	15	0	0.56 /hr	
501 Gated Pipe	0 yr	0 hr	6,443	900 hr	15	0	0.20 /hr	
502 Elec Pivot 35psi	0 yr	0 hr	33,000	900 hr	15	0	0.56 /hr	



1999 Operations List South West Nebraska

SW Operation	Power Code	Imp Code	Energy/hr	Operation Rate	Cost per Acre											
					Hrs / Acre		Labor@ \$7.50	Fuel& Lube	Repairs		Deprec		THII@ 6.5%		Total	
					Labor	Mach			Power	Impl	Power	Impl	Power	Impl		
All Irrig	Labor															
All Irrig.	400	501	49.72 Kwh	E 1,000 GPM	4.94	4.49	37.05	9.33	1.57	0.90	13.00	4.16	10.69	2.22	78.92	
All Irrig.	401	501	3.15 gal	D 1,000 GPM	4.94	4.49	37.05	9.33	4.94	0.90	31.02	4.16	23.87	2.22	113.49	
All Irrig.	403	500	4.72 gal	D 800 GPM	6.17	5.61	46.28	16.09	3.87	3.14	19.74	17.58	12.84	9.24	128.79	
All Irrig.	404	502	66.67 Kwh	E 800 GPM	6.17	5.61	46.28	15.63	2.02	3.14	15.50	16.92	12.44	8.80	120.73	
Apply Anhy	17	Rent	5.57 gal	D 6.87 Ac/hr	0.17	0.15	1.28	0.55	0.18		1.81		1.37		5.19	
Auger	15	111	2.12 gal	D 2,500 Bu/hr	0.04	0.04	0.30	0.06	0.09	0.03	0.18	0.08	0.16	0.06	0.96	
Bale	15	100	2.12 gal	D 5.1 Ton/hr	0.22	0.20	1.65	0.28	0.46	0.18	0.89	1.92	0.80	1.95	8.13	
Bale	15	101	3.18 gal	D 5.93 Ton/hr	0.19	0.17	1.43	0.36	0.39	0.23	0.76	1.43	0.68	1.19	6.47	
Bale	Custom															
Bale	Custom															
Chisel	17	25	10.60 gal	D 6.17 Ac/hr	0.18	0.16	1.35	1.12	0.19	0.26	1.93	0.81	1.46	1.20	8.32	
Chop	17	99	5.57 gal	D 2.07 Ac/hr	0.53	0.48	3.98	1.76	0.57	1.88	5.80	8.46	4.37	7.05	33.87	
Combine	84	87	11.40 gal	D 6.35 Ac/hr	0.18	0.16	1.35	1.20	1.55	0.48	6.54	2.90	3.96	1.38	19.37	
Combine	84	88	11.40 gal	D 5.38 Ac/hr	0.21	0.19	1.58	1.43	1.84	0.52	7.77	2.75	4.70	1.23	21.83	
Combine	84	91	11.40 gal	D 6.59 Ac/hr	0.17	0.15	1.28	1.13	1.45	0.12	6.14	1.18	3.71	0.53	15.53	
Combine	84	92	9.81 gal	D 4 Ac/hr	0.28	0.25	2.10	1.62	2.42	0.09	10.23	0.84	6.19	0.40	23.88	
Combine	84	125	11.40 gal	D 6.59 Ac/hr	0.17	0.15	1.28	1.13	1.45	0.05	6.14	3.18	3.71	1.73	18.68	
Cut	15	82	6.36 gal	D 5.73 Ac/hr	0.19	0.17	1.43	0.71	0.39	0.08	0.76	2.60	0.68	1.60	8.25	
Disc	17	31	19.08 gal	D 12.14 Ac/hr	0.09	0.08	0.68	1.01	0.10	0.48	0.97	1.39	0.73	1.19	6.55	
Drill	15	61	6.89 gal	D 8.44 Ac/hr	0.13	0.12	0.98	0.55	0.28	0.61	0.53	1.87	0.48	1.97	7.28	
Drill	Custom															
Dry	Custom															
Field Cult	17	37	8.48 gal	D 9.1 Ac/hr	0.12	0.11	0.90	0.62	0.13	0.13	1.33	0.64	1.00	0.56	5.31	
Harrow	15	53	2.12 gal	D 12.33 Ac/hr	0.09	0.08	0.68	0.11	0.18	0.02	0.36	0.36	0.32	0.69	2.71	
Harrow	15	53	2.12 gal	D 12.33 Ac/hr	0.09	0.08	0.68	0.11	0.18	0.02	0.36	0.36	0.32	0.69	2.71	
Hoe	15	48	5.57 gal	D 17.92 Ac/hr	0.07	0.06	0.53	0.22	0.14	0.02	0.27	1.51	0.24	1.29	4.22	
Move Bales	Custom															
Fallow Mulch	17	210	9.81 gal	D 13.33 Ac/hr	0.09	0.08	0.68	0.52	0.10	0.19	0.97	1.10	0.73	1.63	5.92	
Pack	17		3.18 gal	D 6.55 Ac/hr	0.17	0.15	1.28	0.31	0.18		1.81		1.37		4.95	
Plant	15	123	4.77 gal	D 5.88 Ac/hr	0.19	0.17	1.43	0.54	0.39	0.62	0.76	4.08	0.68	2.84	11.35	
Plant	17	69	3.98 gal	D 6.5 Ac/hr	0.17	0.15	1.28	0.39	0.18	0.38	1.81	3.29	1.37	2.29	10.99	



Cost per Acre															
SW	Power	Imp	Operation		Hrs / Acre		Labor@	Fuel&	Repairs		Deprec		THII@ 6.5%		Total
Operation	Code	Code	Energy/hr	Rate	Labor	Mach	\$7.50	Lube	Power	Impl	Power	Impl	Power	Impl	
Ridge Cult	17	124	5.83 gal D.	6.35 Ac/hr	0.18	0.16	1.35	0.62	0.19	0.20	1.93	0.47	1.46	0.50	6.72
Ridge Plant	17	123	4.77 gal D.	5.88 Ac/hr	0.19	0.17	1.43	0.54	0.20	0.62	2.05	4.08	1.55	2.84	13.32
Rod Weeder	17	45	7.95 gal D.	11.63 Ac/hr	0.10	0.09	0.75	0.47	0.11	0.31	1.09	1.74	0.82	1.49	6.77
Roller	15	49	7.95 gal D.	6.55 Ac/hr	0.17	0.15	1.28	0.79	0.35	0.34	0.67	2.62	0.60	2.24	8.90
Row Crop Cult	15	124	5.83 gal D.	6.35 Ac/hr	0.18	0.16	1.35	0.62	0.37	0.20	0.71	0.47	0.64	0.50	4.86
Row Crop Cult	17	41	6.89 gal D.	5.29 Ac/hr	0.21	0.19	1.58	0.86	0.23	0.08	2.29	0.34	1.73	0.50	7.61
Shred	17	108	3.18 gal D.	9.26 Ac/hr	0.12	0.11	0.90	0.23	0.13	0.57	1.33	1.03	1.00	0.74	5.93
Shred	17	108	3.18 gal D.	9.26 Ac/hr	0.12	0.11	0.90	0.23	0.13	0.57	1.33	1.03	1.00	0.74	5.93
Spray	15	75	3.18 gal D.	11.82 Ac/hr	0.09	0.08	0.68	0.17	0.18	0.07	0.36	0.45	0.32	0.54	2.77
Spray	15	75	3.18 gal D.	11.82 Ac/hr	0.09	0.08	0.68	0.17	0.18	0.07	0.36	0.45	0.32	0.54	2.77
Spray	Custom														
Spray w/Disc		77		12.14 Ac/hr	0.00	0.08	0.00			0.11		0.23		0.20	0.54
Spread Fert.	Custom														
Stack	15	103	3.18 gal D.	14 Ac/hr	0.08	0.07	0.60	0.15	0.16	0.99	0.31	5.09	0.28	5.17	12.74
Truck	Custom														
Windrow	15	95	3.18 gal D.	3.5 Ac/hr	0.32	0.29	2.40	0.61	0.67	0.79	1.29	2.20	1.16	1.83	10.95
Windrow	94		3.18 gal D.	3.82 Ac/hr	0.29	0.26	2.18	0.55	1.61		8.30		5.32		17.97

Diesele@ \$0.60 /gal

If operation rate is other than Ac/hr  
costs shown above are for:

100 bushels/acre

10 Acre Inches

1 tons/acre

Budgeted Production Costs Summary  
South West Nebraska 1999

Budget Crop Description	B2 Corn Grain Gravity Irrig	B3 Corn Silage Gravity Irrig	B4 Corn Grain Ditch Irrig	B5 Corn Ridge Gravity Irrig	B6 Corn Cont Pivot Fine	B7 Corn ff beans Pivot Fine	B8 Corn Cont Pivot Sandy	B9 Pinto Pivot Irrig	B10 Soybean Pivot Irrig
Yield	145.0 Bu	21.0 Ton	150.0 Bu	155.0 Bu	145.0 Bu	160.0 Bu	140.0 Bu	20.0 cwt	45.0 Bu
Mgt Fee/unit	Corn \$0.25	Silage \$2.00	Corn \$0.25	Corn \$0.25	Corn \$0.25	Corn \$0.25	Corn \$0.25	Beans \$2.10	Beans \$0.61
Land Invest.	\$1,200	\$1,200	\$1,200	\$1,200	\$1,290	\$1,290	\$1,290	\$1,290	\$1,290
Unimp.	1,001	1,001	1,200	799	950	950	950	950	950
Irrig	199	199		401	340	340	340	340	340
Mach Invest	\$294.22	\$437.82	\$305.17	\$278.24	\$258.34	\$182.85	\$258.22	\$381.68	\$209.74
Op Cost/ac	\$198.89	\$239.01	\$176.23	\$187.53	\$188.16	\$158.87	\$184.24	\$110.16	\$93.21
Overhead	9.94	11.95	8.81	9.38	9.41	7.94	9.21	5.51	4.66
Unpaid Mgt	36.25	42.00	37.50	38.75	36.25	40.00	35.00	42.00	27.45
Land Interest	52.07	52.07	60.00	29.55	38.96	38.96	38.96	38.96	38.96
Irrig Interest	10.33	10.33		14.85	13.93	13.93	13.93	13.93	13.93
RE Taxes	\$21.00	\$21.00	\$21.00	\$21.00	\$22.58	\$22.58	\$22.58	\$22.58	\$22.58
Irrig Deprec	17.16	17.16		35.18	37.32	37.32	37.32	37.32	37.32
Land Subtotal	\$100.56	\$100.56	\$81.00	\$100.58	\$112.79	\$112.79	\$112.79	\$112.79	\$112.79
Mach. Interest	\$19.12	\$28.46	\$19.84	\$18.09	\$16.79	\$11.89	\$16.78	\$24.81	\$13.63
Mach. Deprec	27.00	36.01	27.38	26.20	24.59	18.12	24.58	34.19	20.06
Mach. Subtotal	\$46.12	\$64.46	\$47.21	\$44.29	\$41.38	\$30.01	\$41.37	\$59.00	\$33.69
Total Owner Costs	\$146.68	\$165.02	\$128.21	\$144.87	\$154.17	\$142.79	\$154.15	\$171.78	\$146.48
Estab Costs									
Years									
Per Year									
Total Cost/ac	\$391.76	\$457.98	\$350.75	\$380.53	\$387.99	\$349.60	\$382.60	\$329.45	\$271.80
Total Cost/unit	\$2.70	\$21.81	\$2.34	\$2.46	\$2.68	\$2.19	\$2.73	\$16.47	\$6.04

Budgeted Production Costs Summary  
South West Nebraska, 1999 (Continued)

Budget Crop Description	B11 RRBeans Pivot Irrig	B12 Fall Seed Alfalfa	B13 Alfalfa Pivot Irrig	B14 Hay Sub- Irrig	B15 Seed grass Pivot Irrig	B16 Pasture pivot Irrig	B17 Wheat Pivot Irrig	B18 Wheat Stubble Mulch	B19 Wheat Clean Till
Yield	55.0 Bu		5.5 Ton Alfalfa	6.0 Ton Alfalfa		12.0 AUM	70.0 Bu	45.0 Bu	40.0 Bu
	Beans	Alfalfa	Hay	Hay	Grass	Pasture	Wheat	Wheat	Wheat
Mgt Fee/unit	\$0.61		\$6.00	\$6.00			\$0.50	\$0.50	\$0.50
Land Invest.	\$1,290	\$1,290	\$1,290	\$1,200	\$1,290	\$1,290	\$1,290	\$460	\$460
Unimp.	950	950	950	1,200	963	963	963	460	460
Irrig	340	340	340		327	327	327		
Mach Invest	\$200.15	\$134.86	\$518.96	\$695.48	\$103.68		\$465.20	\$345.35	\$307.62
Op Cost/ac	\$103.60	\$97.78	\$127.16	\$62.98	\$127.60	\$116.32	\$112.35	\$66.36	\$62.62
Overhead	5.18	4.89	6.36	3.15	6.38	5.82	5.62	3.32	3.13
Unpaid Mgt	33.55		33.00	36.00			35.00	22.50	20.00
Land Interest	38.96		38.96	79.20	35.64	35.64	35.64	44.16	44.16
Irrig Interest	13.93		13.93		12.09	12.09	12.09		
RE Taxes	\$22.58		\$22.58	\$21.00	\$22.58	\$22.58	\$22.58	\$16.10	\$16.10
Irrig Deprec	37.32		37.32		32.42	32.42	32.42		
Land Subtotal	\$112.79		\$112.79	\$100.20	\$102.73	\$102.73	\$102.73	\$60.26	\$60.26
Mach. Interest	\$13.01	\$8.77	\$33.73	\$45.21	\$6.74		\$30.24	\$22.45	\$20.00
Mach. Deprec	17.90	9.51	48.54	58.14	8.07		45.75	30.43	27.03
Mach. Subtotal	\$30.91	\$18.28	\$82.27	\$103.35	\$14.81		\$75.99	\$52.87	\$47.02
Total Owner Costs	\$143.69	\$18.28	\$195.06	\$203.55	\$117.53	\$102.73	\$178.71	\$113.13	\$107.28
Estab Costs			\$112.66	\$112.66		\$225.67			
Years			5	5		5			
Per Year			\$22.53	\$22.53		\$45.13			
Total Cost/ac	\$286.02	\$120.95	\$384.11	\$328.21	\$251.51	\$270.00	\$331.68	\$205.31	\$193.03
Total Cost/unit	\$5.20		\$69.84	\$54.70		\$22.50	\$4.74	\$4.56	\$4.83



Budgeted Production Costs Summary  
South West Nebraska, 1999 (Continued)

Budget Crop Description	B20 Cont Wheat Chemical	B21 Ecofallow Wheat	B22 Ecofallow Corn	B23 Ecofallow Sorghum	B24 Cont Sorghum	B25 Cont Sorghum Notill	B26 Ecofallow Sunflower	B27 Cane Hay
Yield	32.0 Ton	48.0 Bu	75.0 Bu	75.0 Bu	40.0 Bu	80.0 Bu	15.0 cwt	3.0 Ton
	Wheat	Wheat	Corn	Grain Sorghum	Grain	Grain	Grain	Hay
Mgt Fee/unit	\$0.50	\$0.50	\$0.25	\$0.23	\$0.23	\$0.23	\$2.00	\$6.00
Land Invest.	\$460	\$460	\$460	\$460	\$460	\$460	\$460	\$460
Unimp.	460	460	460	460	460	460	460	460
Irrig								
Mach Invest	\$165.69	\$309.77	\$184.90	\$184.90	\$267.96	\$157.16	\$180.84	\$243.91
Op Cost/ac	\$66.74	\$61.74	\$107.00	\$90.19	\$59.27	\$87.11	\$78.20	\$65.95
Overhead	3.34	3.09	5.35	4.51	2.96	4.36	3.91	3.30
Unpaid Mgt	16.00	24.00	18.75	17.25	9.20	18.40	30.00	18.00
Land Interest	22.08	33.12	33.12	33.12	22.08	22.08	22.08	22.08
Irrig Interest								
RE Taxes	\$8.05	\$12.08	\$12.08	\$12.08	\$8.05	\$8.05	\$8.05	\$8.05
Irrig Deprec								
Land Subtotal	\$30.13	\$45.20	\$45.20	\$45.20	\$30.13	\$30.13	\$30.13	\$30.13
Mach. Interest	\$10.77	\$20.14	\$12.02	\$12.02	\$17.42	\$10.22	\$11.75	\$15.85
Mach. Deprec	14.47	24.84	17.67	17.67	24.49	15.39	16.80	18.57
Mach. Subtotal	\$25.24	\$44.98	\$29.68	\$29.68	\$41.91	\$25.60	\$28.55	\$34.42
Total Owner Costs	\$55.37	\$90.17	\$74.88	\$74.88	\$72.04	\$55.73	\$58.68	\$64.55
Estab Costs	\$112.66							
Years								
Per Year								
Total Cost/ac	\$141.45	\$179.00	\$205.98	\$186.83	\$143.47	\$165.60	\$170.79	\$151.80
Total Cost/unit	\$4.42	\$3.73	\$2.75	\$2.49	\$3.59	\$2.07	\$11.39	\$50.60

B2 Returns Above Operating Costs Budget Worksheet  
 Cont. Corn, Gravity Irrig, Elec, 206' Head  
 15 Acre-inches 145 Bu Corn

SW  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Shred	9.26 Ac/hr	0.13	0.11	0.23D	0.13	0.57		0.93	
2 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48		1.62	
3 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48		1.62	
4 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17			0.71	
5 Plant	6.5 Ac/hr	0.18	0.15	0.48D	0.36	0.62		1.46	
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.73D	0.44	0.20		1.37	
7 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.73D	0.44	0.20		1.37	
8 Spray	Custom								
9 All Irrig.	1000 GPM	1.48	6.73	13.99E	2.36	1.35		17.70	
10 Combine	5.38 Ac/hr	0.23	0.19	1.40D	1.80	0.48		3.68	
11 Truck	Custom								
12 Auger	2500 Bu/hr	0.07	0.06	0.08D	0.13	0.04		0.25	
13 Dry	Custom								
Subtotal		2.92 Hrs		20.26	6.03	4.41		\$30.70	

Diesel 9.46 Gal @ \$0.60 \$5.68  
 Electricity 334.62 KWH @ \$0.038 \$12.72

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	5	0.33	bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	4	155	lb N	0.13	20.15	28.25	
	10-34-0	5	6	gal	1.35	8.10		
Chemicals	Bicep II Mag	5	0.84	qt	9.94	8.35	25.52	
	Lorsban 15G	5	6.5	lb	1.68	10.92		
	Dipel 10G	8	2	lb	1.19	2.38		
	Lorsban 4E	8	0.33	pt	7.50	2.48		
	Warrior, T	8	0.26	oz	2.42	0.63		
	Cygon	8	0.14	pt	5.50	0.77		
Custom	Truck	11	145	bu	0.05	7.25	25.69	
	Drying	13	145	bu	0.10	14.50		
	Aerial Spray	8	0.876	acre	4.50	3.94		
Rent	Anhy Applicator	4	1	acre	1.50	1.50	1.50	
Other	Hookup Charge	9	0.75	Kwh	30.00	22.50	22.50	
Subtotal							\$136.80	
Total Operating Costs excluding Interest & Unpaid Labor							\$167.50	
Interest on Oper. Capital		\$167.50 @ 8.5% for 8 Months					9.49	
Unpaid Labor		2.92 Hours @ \$7.50 /hr					21.90	
Total Operating Costs							\$198.89	

Projected Returns

Corn 145 Bu @

Total Returns

Net Return above Operating Costs

NOTE: Rates and Aerial Spray acres have been adjusted  
 to reflect the following:

Dipel 10G and Warrior, T: applied 1 of 5 years  
 Lorsban: 1 of 3 years; and Cygon: 1 of 7 years

B3 Returns Above Operating Costs Budget Worksheet  
Corn Silage After Corn, Gravity Irrig. Elect., 206' Head  
15 Acre-inches 21 Ton Silage

SW  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Shred	9.26 Ac/hr	0.13	0.11	0.23D	0.13	0.57		0.93	
2 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48		1.62	
3 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17			0.71	
4 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48		1.62	
5 Plant	6.53 Ac/hr	0.18	0.15	0.48D	0.35	0.62		1.45	
6 Row Crop Cult	5.88 Ac/hr	0.20	0.17	0.65D	0.39	0.20		1.24	
7 Row Crop Cult	5.88 Ac/hr	0.20	0.17	0.65D	0.39	0.20		1.24	
8 Spray	Custom								
9 All Irrig.	1000 GPM	1.48	6.73	13.99E	2.36	1.35		17.70	
10 Chop	2.07 Ac/hr	0.58	0.48	1.77D	0.57	1.88		4.22	
11 Truck	Custom								
12 Pack	45 Ton/hr	0.56	0.47	0.98D	0.56			1.54	

Subtotal 3.71 Hrs 21.37 5.12 5.77 \$32.26

Diesel 11.10 Gal @ \$0.60 \$6.66  
Electricity 334.62 KWH @ \$0.038 \$12.72

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	5	0.33 bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	3	155 lb N	0.13	20.15	28.25	
	10-34-0	5	6 gal	1.35	8.10		
Chemicals	Bicep II Mag	5	0.844 qt	9.94	8.39	25.56	
	Lorsban 15G	5	6.5 lb	1.68	10.92		
	Dipel 10G	8	2 lb	1.19	2.38		
	Lorsban 4E	8	0.33 pt	7.50	2.48		
	Warrior, T	8	0.26 oz	2.42	0.63		
	Cygon	8	0.14 pt	5.50	0.77		
Custom	Truck Silage	11	21 ton	2.50	52.50	56.44	
	Aerial Spray	8	0.876 acre	4.50	3.94		
Rent	Anhy Applicator	3	1 acre	1.50	1.50	1.50	
Other	Hookup Charge	9	0.75 Kwh	30.00	22.50	22.50	
Subtotal						\$167.59	
Total Operating Costs excluding Interest & Unpaid Labor						\$199.85	
Interest on Oper. Capital \$199.85 @ 8.5% for 8 Months						11.32	
Unpaid Labor 3.71 Hours @ \$7.50 /hr						27.84	
Total Operating Costs						\$239.01	

Projected Returns

Silage 21 Ton @

Total Returns

Net Return above Operating Costs

NOTE: Rates and Aerial Spray acres have been adjusted to reflect the following:

Dipel 10G and Warrior, T: applied 1 of 5 years  
Lorsban: 1 of 3 years; and Cygon: 1 of 7 years



B4 Returns Above Operating Costs Budget Worksheet  
 Corn For Grain, Ditch Irrig.  
 16 Acre-inches 150 Bu Corn

SW  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Shred	9.26 Ac/hr	0.13	0.11	0.23D	0.13	0.57		0.93	
2 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17			0.71	
3 Chisel	6.17 Ac/hr	0.19	0.16	1.13D	0.19	0.26		1.58	
4 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48		1.62	
5 Plant	5.44 Ac/hr	0.22	0.18	0.58D	0.42	0.62		1.62	
6 Row Crop Cult	5.88 Ac/hr	0.20	0.17	0.65D	0.39	0.20		1.24	
7 Row Crop Cult	5.88 Ac/hr	0.20	0.17	0.65D	0.39	0.20		1.24	
8 Spray	Custom								
9 All Irrig	Labor	1.20							
10 Combine	5.38 Ac/hr	0.32	0.19	1.40D	1.80	0.48		3.68	
11 Truck	Custom								
12 Auger	2500 Bu/hr		0.06	0.08D	0.14	0.04		0.26	
13 Dry	Custom								

Subtotal 2.74 Hrs 6.30 3.73 2.83 \$12.86

Diesel 9.54 Gal @ \$0.60 \$5.72

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	5	0.33 bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	2	165 lb N	0.13	21.45	29.55	
	10-34-0	5	6 gal	1.35	8.10		
Chemicals	Bicep II Mag	5	0.7 qt	9.94	6.96	24.13	
	Lorsban 15G	5	6.5 lb	1.68	10.92		
	Dipel 10G	8	2 lb	1.19	2.38		
	Lorsban 4E	8	0.33 pt	7.50	2.48		
	Warrior, T	8	0.26 oz	2.42	0.63		
	Cygon	8	0.14 pt	5.50	0.77		
Custom	Truck	11	150 bu	0.05	7.50	26.44	
	Drying	13	150 bu	0.10	15.00		
	Aerial Spray	8	0.876 acre	4.50	3.94		
Rent	Anhy Applicator	2	1 acre	1.50	1.50	1.50	
Other	Water Tax	9	1 acre	19.50	19.50	19.50	
Subtotal						\$134.45	
Total Operating Costs excluding Interest & Unpaid Labor						\$147.32	
Interest on Oper. Capital \$147.32 @ 8.5% for 8 Months						8.35	
Unpaid Labor 2.74 Hours @ \$7.50 /hr						20.56	
Total Operating Costs						\$176.23	

Projected Returns

Corn 150 Bu @

Crop Residue 2 AUM @

Total Returns

Net Return above Operating Costs

NOTE: Rates and Aerial Spray acres have been adjusted to reflect the following:

Dipel 10G and Warrior, T: applied 1 of 5 years  
 Lorsban: 1 of 3 years; and Cygon: 1 of 7 years

B5 Returns Above Operating Costs Budget Worksheet  
 Ridge-Till, Corn Grain, Gravity Irrig., Diesel 148' Head  
 15 Acre-inches 155 Bu Corn SW 99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Shred	9.26 Ac/hr	0.13	0.11	0.23D	0.13	0.57	0.93	
2	Spray	Custom							
3	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17		0.71	
4	Ridge Plant	5.88 Ac/hr	0.20	0.17	0.54D	0.20	0.62	1.36	
5	Ridge Cult	6.35 Ac/hr	0.19	0.16	0.61D	0.19	0.20	1.00	
6	Ridge Cult	6.35 Ac/hr	0.19	0.16	0.61D	0.19	0.20	1.00	
7	Spray	Custom							
8	All Irrig.	1000 GPM	1.48	6.73	14.00D	7.41	1.35	22.76	
9	Combine	4.04 Ac/hr	0.30	0.25	1.60D	2.40	0.09	4.09	
10	Truck	Custom							
11	Auger	2500 Bu/hr	0.07	0.06	0.09D	0.14	0.04	0.27	
12	Dry	Custom							
Subtotal			2.75 Hrs		18.22	10.83	3.06	\$32.11	

Diesel 27.64 Gal @ \$0.60 \$16.58

Materials & Services	Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed Corn	4	0.33 bag	101.00	33.33	\$33.33	
Fertilizer Anhy Ammonia	3	170 lb N	0.13	22.10	30.20	
	4	6 gal	1.35	8.10		
Chemicals 2,4-D Ester	2	1 pt	2.22	2.22	29.61	
Atrazine 4L	2	2 pt	1.63	3.26		
Bicep II Mag	4	0.7 qt	9.94	6.96		
Lorsban 15G	4	6.5 lb	1.68	10.92		
Dipel 10G	7	2 lb	1.19	2.38		
Lorsban 4E	7	0.33 pt	7.50	2.48		
Warrior, T	7	0.26 oz	2.42	0.63		
Cygon	7	0.14 pt	5.50	0.77		
Custom Broadcast Spray	2	1 acre	4.00	4.00	31.19	
Truck	10	155 bu	0.05	7.75		
Drying	12	155 bu	0.10	15.50		
Aerial Spray	7	0.876 acre	4.50	3.94		
Rent Anhy Applicator	3	1 acre	1.50	1.50	1.50	
Subtotal					\$125.83	
Total Operating Costs excluding Interest & Unpaid Labor					\$157.94	
Interest on Oper. Capital \$157.94 @ 8.5% for 8 Months					8.95	
Unpaid Labor 2.75 Hours @ \$7.50 /hr					20.64	
Total Operating Costs					\$187.53	

#### Projected Returns

Corn 155 Bu @  
 Crop Residue 2 AUM @

#### Total Returns

Net Return above Operating Costs

NOTE: Rates and Aerial Spray acres have been adjusted to reflect the following:

Dipel 10G and Warrior, T: applied 1 of 5 years  
 Lorsban: 1 of 3 years; and Cygon: 1 of 7 years



B6

Returns Above Operating Costs Budget Worksheet  
 Cont Corn, Grain, Pivot Diesel, 281' Head, Fine Texture  
 15 Acre-inches 145 Bu Corn

SW  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Shred	9.26 Ac/hr	0.13	0.11	0.23D	0.13	0.57	0.93	
2	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17		0.71	
3	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
4	Spray w/Disc	12.14 Ac/hr		0.08			0.11	0.11	
5	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
6	Plant	6.53 Ac/hr	0.18	0.15	0.48D	0.35	0.62	1.45	
7	All Irrig.	800 GPM	0.51	8.42	24.14D	5.81	4.71	34.66	
8	Combine	5.39 Ac/hr	0.23	0.19	1.40D	1.80	0.48	3.68	
9	Truck	Custom							
10	Auger	2500 Bu/hr	0.07	0.06	0.08D	0.13	0.04	0.25	
11	Dry	Custom							

Subtotal 1.49 Hrs 28.95 8.59 7.48 \$45.02

Diesel 46.99 Gal @ \$0.60 \$28.19

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	6	0.33 bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	2	155 lb N	0.13	20.15	28.25	
	10-34-0	6	6 gal	1.35	8.10		
Chemicals	Bicep II Mag	4	2.1 qt	9.94	20.87	37.65	
	Lorsban 15G	5	6.5 lb	1.68	10.92		
	Dipel ES	7	0.4 pt	4.95	1.98		
	Lorsban 4E	7	0.33 pt	7.50	2.48		
	Warrior, T	7	0.26 oz	2.42	0.63		
	Cygon	7	0.14 pt	5.50	0.77		
Custom	Truck	9	145 bu	0.05	7.25	21.75	
	Drying	11	145 bu	0.10	14.50		
Rent	Anhy Applicator	2	1 acre	1.50	1.50	1.50	
Subtotal						\$122.48	
Total Operating Costs excluding Interest & Unpaid Labor						\$167.50	
Interest on Oper. Capital \$167.50 @ 8.5% for 8 Months						9.49	
Unpaid Labor 1.49 Hours @ \$7.50 /hr						11.17	
Total Operating Costs						\$188.16	

## Projected Returns

Corn 145 Bu @

## Total Returns

## Net Return above Operating Costs



B7

**Returns Above Operating Costs Budget Worksheet**  
 Corn ff soybean, Pivot Diesel, 281' Head, fine texture  
 15 Acre-inches 160 Bu Corn

SW  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17		0.71	
2	Spray	12.14 Ac/hr	0.10	0.08	0.17D	0.19	0.07	0.43	
3	Plant	6.53 Ac/hr	0.18	0.15	0.48D	0.35	0.62	1.45	
4	All Irrig.	800 GPM	0.51	8.42	24.14D	5.81	4.71	34.66	
5	Combine	5.39 Ac/hr	0.23	0.19	1.40D	1.80	0.48	3.68	
6	Truck	Custom							
7	Auger	2500 Bu/hr	0.07	0.06	0.09D	0.15	0.04	0.28	
Subtotal			1.26 Hrs		26.82	8.47	5.91	\$41.20	

Diesel 43.84 Gal @ \$0.60 \$26.30

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	3	0.33	bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	1	120	lb N	0.13	15.60	23.70	
	10-34-0	3	6	gal	1.35	8.10		
Chemicals	Bicep II Mag	2	2.1	qt	9.94	20.87	33.67	
	Gramoxone Extra	2	1.5	pt	4.63	6.95		
	Dipel ES	4	0.4	pt	4.95	1.98		
	Lorsban 4E	4	0.33	pt	7.50	2.48		
	Warrior, T	4	0.26	oz	2.42	0.63		
	Cygon	4	0.14	pt	5.50	0.77		
Custom	Truck	6	160	bu	0.05	8.00	8.00	
Rent	Anhy Applicator	1	1	acre	1.50	1.50	1.50	
Subtotal							\$100.20	
Total Operating Costs excluding Interest & Unpaid Labor							\$141.40	
Interest on Oper. Capital \$141.40 @ 8.5% for 8 Months							8.01	
Unpaid Labor 1.26 Hours @ \$7.50 /hr							9.46	
Total Operating Costs							\$158.87	

## Projected Returns

Corn 160 Bu @

## Total Returns

## Net Return above Operating Costs

B8 Returns Above Operating Costs Budget Worksheet  
 Cont Corn, Grain, Pivot Diesel, 281' Head, Sandy Soil  
 15 Acre-inches 140 Bu Corn

SW  
99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub-Total	Your Estimate
			Labor	Mach		Power	Impl		
1	Shred	9.26 Ac/hr	0.13	0.11	0.23D	0.13	0.57	0.93	
2	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17		0.71	
3	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
4	Spray w/Disc	12.14 Ac/hr		0.08			0.11	0.11	
5	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
6	Plant	6.53 Ac/hr	0.18	0.15	0.48D	0.35	0.62	1.45	
7	All Irrig.	800 GPM	0.51	8.42	24.14D	5.81	4.71	34.66	
8	Combine	5.39 Ac/hr	0.23	0.19	1.40D	1.80	0.48	3.68	
9	Truck	Custom							
10	Auger	2500 Bu/hr	0.07	0.06	0.08D	0.13	0.04	0.25	
11	Dry	Custom							

Subtotal 1.49 Hrs 28.95 8.59 7.48 \$45.02

Diesel 46.99 Gal @ \$0.60 \$28.19

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	6	0.33 bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	2	150 lb N	0.13	19.50	31.97	
	10-0-0-10Z	6	1 gal	2.37	2.37		
	10-34-0	6	6 gal	1.35	8.10		
	28-0-0	6	10 lb N	0.20	2.00		
Chemicals	Bullet	4	3 qt	4.73	14.19	30.96	
	Lorsban 15G	6	6.5 lb	1.68	10.92		
	Dipel ES	7	0.4 pt	4.95	1.98		
	Lorsban 4E	7	0.33 pt	7.50	2.48		
	Warrior, T	7	0.26 oz	2.42	0.63		
	Cygon	7	0.14 pt	5.50	0.77		
Custom	Truck	9	140 bu	0.05	7.00	21.00	
	Drying	11	140 bu	0.10	14.00		
Rent	Anhy Applicator	2	1 acre	1.50	1.50	1.50	
Subtotal						\$118.76	
Total Operating Costs excluding Interest & Unpaid Labor						\$163.79	
Interest on Oper. Capital \$163.79 @ 8.5% for 8 Months						9.28	
Unpaid Labor 1.49 Hours @ \$7.50 /hr						11.17	
Total Operating Costs						\$184.24	

Projected Returns

Corn 140 Bu @

Total Returns

Net Return above Operating Costs

B9 Returns Above Operating Costs Budget Worksheet  
 Pinto Beans, Center Pivot Irrig., Diesel, 281' Head  
 9 Acre-inches 20 cwt Beans

SW  
99

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub- Total	Your Estimate
		Labor	Mach		Power	Impl		
1 Shred	9.26 Ac/hr	0.13	0.11	0.23D	0.13	0.57	0.93	
2 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
3 Spray w/Disc	12.14 Ac/hr		0.08			0.11	0.11	
4 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
5 Plant	6.53 Ac/hr	0.18	0.15	0.48D	0.35	0.62	1.45	
6 Hoe	17.92 Ac/hr	0.07	0.06	0.20D	0.13	0.02	0.35	
7 Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.55D	0.33	0.20	1.08	
8 Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.55D	0.33	0.20	1.08	
9 All Irrig.	800 GPM	0.30	5.05	14.48D	3.48	2.83	20.79	
10 Cut	5.73 Ac/hr	0.20	0.17	0.73D	0.40	0.08	1.21	
11 Windrow	3.82 Ac/hr	0.31	0.26	0.55D	0.60	0.79	1.94	
12 Combine	4 Ac/hr	0.30	0.25	1.88D	2.42	0.12	4.42	
13 Truck	Custom							

Subtotal 2.03 Hrs 21.73 8.37 6.49 \$36.59

Diesel 34.68 Gal @ \$0.60 \$20.81

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Edible Beans	5	0.5 cwt	56.00	28.00	\$28.00	
Fertilizer	10-34-0	5	9 gal	1.35	12.15	12.15	
Chemicals	Freedom	3	3.5 qt	3.00	10.50	10.50	
Custom	Truck, cwt	13	20 cwt	0.13	2.60	2.60	
Subtotal						\$53.25	
Total Operating Costs excluding Interest & Unpaid Labor						\$89.84	
Interest on Oper. Capital		\$89.84 @ 8.5% for 8 Months				5.09	
Unpaid Labor		2.03 Hours @ \$7.50 /hr				15.23	
Total Operating Costs						\$110.16	

Projected Returns

Beans 20 cwt @

Total Returns

Net Return above Operating Costs



B10 Returns Above Operating Costs Budget Worksheet  
Soybeans Following Corn,Pivot Irrig.,Diesel 281'Head  
10 Acre-inches 45 Bu Beans

SW  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel& Lube	Repairs Power Impl			
1 Shred	9.26 Ac/hr	0.13	0.11	0.23D	0.13	0.57	0.93	
2 Spray w/Disc	12.14 Ac/hr		0.08			0.11	0.11	
3 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
4 Plant	6.53 Ac/hr	0.18	0.15	0.48D	0.35	0.62	1.45	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.73D	0.44	0.20	1.37	
6 All Irrig.	800 GPM	0.34	5.61	16.09D	3.87	3.14	23.10	
7 Combine	6.59 Ac/hr	0.18	0.15	1.14D	1.47	0.52	3.13	
8 Truck	Custom							
9 Auger	2500 Bu/hr	0.02	0.02	0.03D	0.04	0.01	0.08	
Subtotal		1.18 Hrs		19.74	6.40	5.64	\$31.78	

Diesel 31.93 Gal @ \$0.60 \$19.16

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Soybeans w/Inoc	4	1 bag	17.00	17.00	\$17.00	
Fertilizer	10-34-0	4	6 gal	1.35	8.10	8.10	
Chemicals	Pursuit +	2	2.5 pt	8.29	20.72	20.72	
Custom	Truck	8	45 bu	0.05	2.25	2.25	
Subtotal						\$48.08	
Total Operating Costs excluding Interest & Unpaid Labor						\$79.86	
Interest on Oper. Capital			\$79.86 @ 8.5%	for 8 Months		4.53	
Unpaid Labor			1.18 Hours @ \$7.50	/hr		8.82	
Total Operating Costs						\$93.21	

Projected Returns  
Beans

Total Returns

Net Return above Operating Costs

B11 Returns Above Operating Costs Budget Worksheet  
 RR Soybean ff corn, narrow row, Pivot D 281' Head, fine soil  
 10 Acre-inches 55 Bu Beans SW 99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Shred	9.26 Ac/hr	0.13	0.11	0.23D	0.13	0.57	0.93	
2	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
3	Drill	5.62 Ac/hr	0.22	0.18	0.81D	0.41	0.61	1.83	
4	Spray	11.82 Ac/hr	0.10	0.08	0.18D	0.20	0.07	0.45	
5	Spray .50	11.82 Ac/hr	0.05	0.04	0.09D	0.10	0.07	0.26	
6	All Irrig.	800 GPM	0.34	5.61	16.09D	3.87	3.14	23.10	
7	Combine	6.59 Ac/hr	0.18	0.15	1.14D	1.47	0.52	3.13	
8	Truck	Custom							
9	Auger	2500 Bu/hr		0.02	0.03D	0.05	0.01	0.09	
Subtotal			1.10 Hrs		19.61	6.33	5.47	\$31.41	

Diesel 31.73 Gal @ \$0.60 \$19.04

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	RR Ready Soybean	3	1.25	bag	24.00	30.00	\$30.00	
Fertilizer	10-34-0	3	6	gal	1.35	8.10	8.10	
Chemicals	Roundup Ultra	4	2	pt	5.91	11.82	17.96	
	Ammon Sulfate	4	1.7	lb	0.09	0.15		
	Roundup Ultra .5	5	2	pt	5.91	5.91		
	Ammon Sulfate .5	5	1.7	lb	0.09	0.08		
Custom	Truck	8	55	bu	0.05	2.75	2.75	
Subtotal							\$58.81	
Total Operating Costs excluding Interest & Unpaid Labor							\$90.21	
Interest on Oper. Capital \$90.21 @ 8.5% for 8 Months							5.11	
Unpaid Labor 1.10 Hours @ \$7.50 /hr							8.28	
Total Operating Costs							\$103.60	

Projected Returns

Beans 55 Bu @

Total Returns

Net Return above Operating Costs

B12 Returns Above Operating Costs Budget Worksheet  
 Fall Seed Alfalfa, Center Pivot Irrig., Diesel 281' Head  
 4 Acre-inches

SW  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
2	Spread Fert.	Custom							
3	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
4	Harrow	12.33 Ac/hr	0.10	0.08	0.11D	0.19	0.02	0.32	
5	Harrow	12.33 Ac/hr	0.10	0.08	0.11D	0.19	0.02	0.32	
6	Roller	6.55 Ac/hr	0.18	0.15	0.80D	0.35	0.34	1.49	
7	Drill	Custom							
8	All Irrig.	800 GPM	0.13	2.24	6.44D	1.55	1.26	9.25	
Subtotal			0.70 Hrs		9.54	2.48	2.60	\$14.62	

Diesel 15.16 Gal @ \$0.60 \$9.09

Materials & Services	Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Alfalfa w/inoc	7	12 lb	3.68	44.16	\$44.16
Fertilizer	0-46-0	2	60 lb P205	0.28	16.80	16.80
Custom	Brdcast Spread	2	1 acre	4.00	4.00	12.00
	Drill	7	1 acre	8.00	8.00	
Subtotal					\$72.96	
Total Operating Costs excluding Interest & Unpaid Labor					\$87.58	
Interest on Oper. Capital					\$87.58 @ 8.5% for 8 Months	4.96
Unpaid Labor					0.70 Hours @ \$7.50 /hr	5.24
Total Operating Costs					\$97.78	



B13

Returns Above Operating Costs Budget Worksheet  
 Alfalfa Hay, Center Pivot Irrig., Diesel 281' Head  
 18 Acre-inches 5.5 Ton Alfalfa Hay

SW  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Repairs			Sub- Total	Your Estimate
		Labor	Mach	Lube	Power	Impl		
1 Spread Fert.	Custom							
2 Windrow	3.5 Ac/hr	0.35	0.29	0.60D	1.77		2.37	
3 Bale .36	5.43 Ton/hr	0.43	0.36	0.77D	0.84	2.65	4.26	
4 Windrow	3.5 Ac/hr	0.35	0.29	0.60D	1.77		2.37	
5 Bale .31	5.43 Ton/hr	0.37	0.31	0.66D	0.72	2.28	3.66	
6 Windrow	3.5 Ac/hr	0.35	0.29	0.60D	1.77		2.37	
7 Bale .22	5.43 Ton/hr	0.26	0.22	0.47D	0.51	1.62	2.60	
8 Windrow	3.5 Ac/hr	0.35	0.29	0.60D	1.77		2.37	
9 Bale .09	5.43 Ton/hr	0.11	0.09	0.19D	0.21	0.66	1.06	
10 All Irrig.	800 GPM	0.61	10.10	28.97D	6.97	5.65	41.59	
11 Move Bales	Custom							

Subtotal 3.17 Hrs 33.46 16.33 12.86 \$62.65

Diesel 54.48 Gal @ \$0.60 \$32.69

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	0-46-0	1	60 lb P205	0.28	16.80	\$16.80	
Custom	Brdcast Spread	1	1 acre	4.00	4.00	15.00	
	Move Bales	11	5.5 bale	2.00	11.00		
Other	Twine	3	2 bale	0.56	1.12	3.36	
	Twine	5	1.75 bale	0.56	0.98		
	Twine	7	1.75 bale	0.56	0.98		
	Twine	9	0.5 bale	0.56	0.28		
Subtotal						\$35.16	
Total Operating Costs excluding Interest & Unpaid Labor						\$97.81	
Interest on Oper. Capital \$97.81 @ 8.5% for 8 Months						5.54	
Unpaid Labor 3.17 Hours @ \$7.50 /hr						23.81	
Total Operating Costs						\$127.16	

Projected Returns

Alfalfa Hay 5.5 Ton @

Total Returns

Net Return above Operating Costs

B14

**Returns Above Operating Costs Budget Worksheet**  
**Sub-Irrigated Alfalfa Platte Valley**  
**6 Ton Alfalfa Hay**

SW  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Spread Fert.	Custom							
2 Windrow	3.5 Ac/hr	0.35	0.29	0.60D	1.77		2.37	
3 Bale .33	5.93 Ton/hr	0.40	0.33					
4 Stack	14 Ac/hr	0.08	0.07	0.15D	0.16 0.99		1.30	
5 Windrow	3.5 Ac/hr	0.35	0.29	0.60D	1.77		2.37	
6 Bale .29	5.93 Ton/hr	0.35	0.29					
7 Stack	14 Ac/hr	0.08	0.07	0.15D	0.16 0.99		1.30	
8 Windrow	3.5 Ac/hr	0.35	0.29	0.60D	1.77		2.37	
9 Bale .25	5.93 Ton/hr	0.30	0.25					
10 Stack	14 Ac/hr	0.08	0.07	0.15D	0.16 0.99		1.30	
11 Windrow	3.5 Ac/hr	0.35	0.29	0.60D	1.77		2.37	
12 Bale .13	5.93 Ton/hr	0.16	0.13					
13 Stack	14 Ac/hr	0.08	0.07	0.15D	0.16 0.99		1.30	

Subtotal 2.93 Hrs 3.00 7.72 3.94 \$14.66

Diesel 4.58 Gal @ \$0.60 \$2.75

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	0-46-0	1	60 lb P205	0.28	16.80	\$16.80	
Custom	Brdcast Spread	1	1 acre	4.00	4.00	4.00	
Other	Twine	3	2 bale	0.56	1.12	3.36	
	Twine	6	1.75 bale	0.56	0.98		
	Twine	9	1.5 bale	0.56	0.84		
	Twine	12	0.75 bale	0.56	0.42		
Subtotal						\$24.16	
Total Operating Costs excluding Interest & Unpaid Labor						\$38.82	
Interest on Oper. Capital		\$38.82 @ 8.5% for 8 Months				2.20	
Unpaid Labor		2.93 Hours @ \$7.50 /hr				21.96	
Total Operating Costs						\$62.98	

Projected Returns

Alfalfa Hay

6 Ton

@

Total Returns

Net Return above Operating Costs

B15

Returns Above Operating Costs Budget Worksheet  
Fall Seed Grass, Center Pivot, Elec 281' Head

4 Acre-inches

SW  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48		1.62	
2 Spread Fert.	Custom								
3 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48		1.62	
4 Roller	6.55 Ac/hr	0.18	0.15	0.80D	0.35	0.34		1.49	
5 Drill	Custom								
6 All Irrig.	800 GPM	0.13	2.24	6.25E	0.81	1.26		8.32	

Subtotal 0.51 Hrs 9.13 1.36 2.57 \$13.06

Diesel 4.25 Gal @ \$0.60 \$2.55  
Electricity 149.34 KWH @ \$0.038 \$5.67

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Grass	5	16 lb	3.50	56.00	\$56.00	
Fertilizer	18-46-0	2	100 lb	0.13	13.00	13.00	
Custom	Brdcast Spread	2	1 acre	4.00	4.00	12.00	
	Drill	5	1 acre	8.00	8.00		
Other	Hookup Charge	6	0.77 Kwh	30.00	23.10	23.10	
Subtotal						\$104.10	
Total Operating Costs excluding Interest & Unpaid Labor						\$117.16	
Interest on Oper. Capital \$117.16 @ 8.5% for 8 Months						6.64	
Unpaid Labor 0.51 Hours @ \$7.50 /hr						3.80	
Total Operating Costs						\$127.60	



B16

Returns Above Operating Costs Budget Worksheet  
 Pasture Center Pivot, Elec 281' Head  
 18 Acre-inches 12 AUM Pasture

SW  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	All Irrig.	800 GPM	0.61	10.10	28.14E	3.64	5.65	37.43	
Subtotal			0.61	Hrs	28.14	3.64	5.65	\$37.43	

Electricity 673.37 KWH @ \$0.038 \$25.59

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Fertilizer	28-0-0	1	220	lb N	0.20	44.00	\$44.00	
Other	Temp Fencing	2	1	acre	1.00	1.00	24.35	
	Move Cattle	3	1	acre	0.25	0.25		
	Hookup Charge	1	0.77	Kwh	30.00	23.10		
Subtotal							\$68.35	
Total Operating Costs excluding Interest & Unpaid Labor							\$105.78	
Interest on Oper. Capital			\$105.78 @	8.5%	for 8 Months		5.99	
Unpaid Labor			0.61	Hours @	\$7.50 /hr		4.55	
Total Operating Costs							\$116.32	

## Projected Returns

Pasture

12 AUM

@

Total Returns

Net Return above Operating Costs

B17

# Returns Above Operating Costs Budget Worksheet Wheat Following Beans, Center Pivot, Elec. 281' Head

6 Acre-inches 70 Bu Wheat

SW  
99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub-Total	Your Estimate
			Labor	Mach		Power	Impl		
1	Field Cult	9.1 Ac/hr	0.13	0.11	0.62D	0.13	0.13	0.88	
2	Drill	8.44 Ac/hr	0.14	0.12	0.54D	0.27	0.61	1.42	
3	All Irrig.	800 GPM	0.20	3.37	9.38E	1.21	1.88	12.47	
4	Spray	Custom							
5	Combine	6.59 Ac/hr	0.18	0.15	1.14D	1.47	0.52	3.13	
6	Truck	Custom							
7	All Irrig.	2500 Bu/hr	0.04	0.03	0.08E	0.01	0.02	0.11	
Subtotal			0.69 Hrs		11.76	3.09	3.16	\$18.01	

Diesel 3.47 Gal @ \$0.60 \$2.08

Electricity 226.68 KWH @ \$0.038 \$8.61

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Wheat	2	75 lb	0.20	15.00	\$15.00	
Fertilizer	28-0-0	2	80 lb N	0.20	16.00	26.80	
	10-34-0	4	8 gal	1.35	10.80		
Chemicals	Tilt(Fungicide)	4	4 oz	2.62	10.48	10.48	
Custom	Aerial Spray	6	1 acre	4.50	4.50	8.00	
	Truck	9	70 bu	0.05	3.50		
Other	Hookup Charge	3	0.77 Kwh	30.00	23.10	23.10	
Subtotal						\$83.38	
Total Operating Costs excluding Interest & Unpaid Labor						\$101.39	
Interest on Oper. Capital			\$101.39 @ 8.5%	for 8 Months		5.75	
Unpaid Labor			0.69 Hours @ \$7.50	/hr		5.21	
Total Operating Costs						\$112.35	

## Projected Returns

Wheat 70 Bu @

Total Returns

Net Return above Operating Costs

B18

**Returns Above Operating Costs Budget Worksheet**  
**Wheat Stubble Mulch Fallow Via Tillage**  
**45 Bu Wheat**

SW  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Chisel	9.76 Ac/hr	0.12	0.10	0.72D	0.12	0.26	1.10	
2	Field Cult	9.1 Ac/hr	0.13	0.11	0.62D	0.13	0.13	0.88	
3	Field Cult	9.1 Ac/hr	0.13	0.11	0.62D	0.13	0.13	0.88	
4	Field Cult	9.1 Ac/hr	0.13	0.11	0.62D	0.13	0.13	0.88	
5	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17		0.71	
6	Rod Weeder	11.63 Ac/hr	0.11	0.09	0.45D	0.10	0.31	0.86	
7	Rod Weeder	11.63 Ac/hr	0.11	0.09	0.45D	0.10	0.31	0.86	
8	Drill	8.44 Ac/hr	0.14	0.12	0.54D	0.27	0.61	1.42	
9	Spray	Custom							
10	Combine	4.12 Ac/hr	0.29	0.24	1.83D	2.35	0.52	4.70	
11	Truck	Custom							
12	Auger	2500 Bu/hr	0.02	0.02	0.03D	0.04	0.01	0.08	

Subtotal 1.37 Hrs 6.42 3.54 2.41 \$12.37

Diesel 9.73 Gal @ \$0.60 \$5.84

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Wheat	8	60	lb	0.20	12.00	\$12.00	
Fertilizer	Anhy Ammonia	5	55	lb N	0.13	7.15	17.95	
	10-34-0	8	8	gal	1.35	10.80		
Chemicals	2,4-D Amine	9	0.5	pt	1.50	0.75	3.03	
	Ally	9	0.1	oz	22.75	2.28		
Custom	Broadcast Spray	9	1	acre	4.00	4.00	6.25	
	Truck	11	45	bu	0.05	2.25		
Rent	Anhy Applicator	5	1	acre	1.50	1.50	1.50	
Subtotal							\$40.73	
Total Operating Costs excluding Interest & Unpaid Labor							\$53.09	
Interest on Oper. Capital \$53.09 @ 8.5% for 8 Months							3.01	
Unpaid Labor 1.37 Hours @ \$7.50 /hr							10.26	
Total Operating Costs							\$66.36	

Projected Returns

Wheat

45 Bu

@

Total Returns

Net Return above Operating Costs



B19

## Returns Above Operating Costs Budget Worksheet

Wheat, Clean-Till Fallow

40 Bu Wheat

SW

99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
2	Field Cult	9.1 Ac/hr	0.13	0.11	0.62D	0.13	0.13	0.88	
3	Field Cult	9.1 Ac/hr	0.13	0.11	0.62D	0.13	0.13	0.88	
4	Field Cult	9.1 Ac/hr	0.13	0.11	0.62D	0.13	0.13	0.88	
5	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17		0.71	
6	Rod Weeder	11.63 Ac/hr	0.11	0.09	0.45D	0.10	0.31	0.86	
7	Rod Weeder	11.63 Ac/hr	0.11	0.09	0.45D	0.10	0.31	0.86	
8	Drill	8.44 Ac/hr	0.14	0.12	0.54D	0.27	0.61	1.42	
9	Spray	Custom							
10	Combine	6.59 Ac/hr	0.18	0.15	1.14D	1.47	0.52	3.13	
11	Truck	Custom							
12	Auger	2500 Bu/hr	0.02	0.02	0.02D	0.04	0.01	0.07	
Subtotal			1.24 Hrs		6.04	2.64	2.63	\$11.31	

Diesel 9.17 Gal @ \$0.60 \$5.50

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Wheat	8	60	lb	0.20	12.00	\$12.00	
Fertilizer	Anhy Ammonia	5	45	lb N	0.13	5.85	16.65	
	10-34-0	8	8	gal	1.35	10.80		
Chemicals	2,4-D Amine	9	0.5	pt	1.50	0.75	3.03	
	Ally	9	0.1	oz	22.75	2.28		
Custom	Broadcast Spray	9	1	acre	4.00	4.00	6.00	
	Truck	11	40	bu	0.05	2.00		
Rent	Anhy Applicator	5	1	acre	1.50	1.50	1.50	
Subtotal							\$39.18	
Total Operating Costs excluding Interest & Unpaid Labor							\$50.49	
Interest on Oper. Capital		\$50.49 @ 8.5% for 8 Months					2.86	
Unpaid Labor		1.24 Hours @ \$7.50 /hr					9.27	
Total Operating Costs							\$62.62	

Projected Returns

Wheat

40 Bu

@

Total Returns

Net Return above Operating Costs

B20

Returns Above Operating Costs Budget Worksheet  
Continuous Wheat With Chemical Weed Control  
32 Bu Wheat

SW  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16	0.07		0.38	
2 Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16	0.07		0.38	
3 Drill	8.44 Ac/hr	0.14	0.12	0.54D	0.27	0.61		1.42	
4 Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16	0.07		0.38	
5 Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16	0.07		0.38	
6 Combine	6.59 Ac/hr	0.18	0.15	1.14D	1.47	0.52		3.13	
7 Truck	Custom								
8 Auger	2500 Bu/hr	0.01	0.01	0.02D	0.03	0.01		0.06	
Subtotal		0.67 Hrs		2.30	2.41	1.40		\$6.11	

Diesel 3.45 Gal @ \$0.60 \$2.07

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	3	60	lb	0.20	12.00	\$12.00	
Fertilizer	10-34-0	3	8	gal	1.35	10.80	20.80	
	28-0-0	4	50	lb N	0.20	10.00		
Chemicals	LandmasterBW	1	54	oz	0.16	8.64	17.88	
	Ammon Sulfate	1	1.7	lb	0.09	0.15		
	Roundup Ultra	2	1	pt	5.91	5.91		
	Ammon Sulfate	2	1.7	lb	0.09	0.15		
	Ally	5	0.1	oz	22.75	2.28		
	2,4-D Amine	5	0.5	pt	1.50	0.75		
Custom	Truck	7	32	bu	0.05	1.60	1.60	
Subtotal							\$52.28	
Total Operating Costs excluding Interest & Unpaid Labor							\$58.39	
Interest on Oper. Capital \$58.39 @ 8.5% for 8 Months							3.31	
Unpaid Labor 0.67 Hours @ \$7.50 /hr							5.04	
Total Operating Costs							\$66.74	

Projected Returns

Wheat

32 Bu

@

Total Returns

Net Return above Operating Costs

B21

Returns Above Operating Costs Budget Worksheet  
Eco-Fallow Wheat Before Corn In Three-Year System  
48 Bu Wheat

SW  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Chisel	9.76 Ac/hr	0.12	0.10	0.72D	0.12	0.26		1.10	
2 Noble	13.33 Ac/hr	0.10	0.08	0.49D	0.09	0.19		0.77	
3 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17			0.71	
4 Noble	13.33 Ac/hr	0.10	0.08	0.49D	0.09	0.19		0.77	
5 Rod Weeder	11.63 Ac/hr	0.11	0.09	0.45D	0.10	0.31		0.86	
6 Rod Weeder	11.63 Ac/hr	0.11	0.09	0.45D	0.10	0.31		0.86	
7 Drill	8.44 Ac/hr	0.14	0.12	0.54D	0.27	0.61		1.42	
8 Spray	Custom								
9 Combine	6.59 Ac/hr	0.18	0.15	1.14D	1.47	0.52		3.13	
10 Truck	Custom								
11 Auger	2500 Bu/hr	0.02	0.02	0.03D	0.04	0.01		0.08	

Subtotal 1.06 Hrs 4.85 2.45 2.40 \$9.70

Diesel 7.47 Gal @ \$0.60 \$4.48

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Wheat	7	60	lb	0.20	12.00	\$12.00	
Fertilizer	10-34-0	3	8	gal	1.35	10.80	17.95	
	Anhy Ammonia	3	55	lb N	0.13	7.15		
Chemicals	Ally	8	0.1	oz	22.75	2.28	3.39	
	2,4-D Ester	8	0.5	pt	2.22	1.11		
Custom	Broadcast Spray	8	1	acre	4.00	4.00	6.40	
	Truck	10	48	bu	0.05	2.40		
Rent	Anhy Applicator	3	1	acre	1.50	1.50	1.50	
Subtotal							\$41.24	
Total Operating Costs excluding Interest & Unpaid Labor							\$50.93	
Interest on Oper. Capital			\$50.93 @ 8.5% for 8 Months				2.89	
Unpaid Labor			1.06 Hours @ \$7.50 /hr				7.92	
Total Operating Costs							\$61.74	

Projected Returns

Wheat

48 Bu

@

Total Returns

Net Return above Operating Costs



B22

**Returns Above Operating Costs Budget Worksheet**  
**Corn Following Eco-Fallow Wheat In Three-Year System**  
**75 Bu Corn**

SW  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16	0.07		0.38	
2 Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16	0.07		0.38	
3 Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16	0.07		0.38	
4 Plant	6.53 Ac/hr	0.18	0.15	0.48D	0.35	0.62		1.45	
5 Combine	5.39 Ac/hr	0.23	0.19	1.40D	1.80	0.48		3.68	
6 Truck	Custom								
7 Auger	2500 Bu/hr	0.04	0.03	0.04D	0.07	0.02		0.13	
Subtotal		0.70 Hrs		2.37	2.70	1.31		\$6.38	
Diesel	3.61 Gal @ \$0.60	\$2.17							

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	4	0.18	bag	101.00	18.18	\$18.18	
Fertilizer	28-0-0	3	80	lb N	0.20	16.00	24.10	
	10-34-0	4	6	gal	1.35	8.10		
Chemicals	LandmasterBW	1	54	oz	0.16	8.64	43.91	
	Ammon Sulfate	1	1.7	lb	0.09	0.15		
	Gramoxone Extra	2	1	pt	4.63	4.63		
	Atrazine 4L	2	2	pt	1.63	3.26		
	Balance	3	1.5	oz	7.95	11.93		
	Dual II Mag	3	1.2	pt	12.75	15.30		
Custom	Truck	6	75	bu	0.05	3.75	3.75	
Subtotal							\$89.94	
Total Operating Costs excluding Interest & Unpaid Labor							\$96.32	
Interest on Oper. Capital			\$96.32 @ 8.5% for 8 Months				5.46	
Unpaid Labor			0.70 Hours @ \$7.50 /hr				5.22	
Total Operating Costs							\$107.00	

## Projected Returns

Corn	75 Bu	@	
Crop Residue	1 AUM	@	
Total Returns			
Net Return above Operating Costs			

B23

**Returns Above Operating Costs Budget Worksheet**  
**Grain Sorghum ff Eco-Fallow Wheat In 3-Year Rotation**  
**75 Bu Grain Sorghum**

SW  
99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Repairs		Sub-Total	Your Estimate
			Labor	Mach	Lube	Power Impl		
1	Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16 0.07	0.38	
2	Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16 0.07	0.38	
3	Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16 0.07	0.38	
4	Plant	6.53 Ac/hr	0.18	0.15	0.48D	0.35 0.62	1.45	
5	Combine	5.39 Ac/hr	0.23	0.19	1.40D	1.80 0.48	3.68	
6	Truck	Custom						
7	Auger	2500 Bu/hr	0.04	0.03	0.04D	0.07 0.02	0.13	
Subtotal			0.70 Hrs		2.37	2.70 1.31	\$6.38	
Diesel			3.61 Gal @ \$0.60		\$2.17			

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Sorghum Safened	4	4	lb	1.26	5.04	\$5.04	
Fertilizer	28-0-0	3	80	lb N	0.20	16.00	24.10	
	10-34-0	4	6	gal	1.35	8.10		
Chemicals	LandmasterBW	1	54	oz	0.16	8.64	41.14	
	Atrazine 4L	2	3	pt	1.63	4.89		
	Gramoxone Extra	2	1	pt	4.63	4.63		
	BicepII LiteMag	3	1.33	qt	13.25	17.62		
	Banvel	3	0.5	pt	10.72	5.36		
Custom	Truck	6	75	bu	0.05	3.75	3.75	
Subtotal							\$74.03	
Total Operating Costs excluding Interest & Unpaid Labor							\$80.41	
Interest on Oper. Capital							\$80.41 @ 8.5% for 8 Months	4.56
Unpaid Labor							0.70 Hours @ \$7.50 /hr	5.22
Total Operating Costs							\$90.19	
Projected Returns								
	Grain Sorghum		75	Bu		@		
	Crop Residue		1	AUM		@		
Total Returns								
Net Return above Operating Costs								

B24

Returns Above Operating Costs Budget Worksheet  
 Continuous Grain Sorghum  
 40 Bu Grain

SW  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
2	Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10	0.48	1.62	
3	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17		0.71	
4	Field Cult	9.1 Ac/hr	0.13	0.11	0.62D	0.13	0.13	0.88	
5	Plant	6.53 Ac/hr	0.18	0.15	0.48D	0.35	0.62	1.45	
6	Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.55D	0.33	0.20	1.08	
7	Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.55D	0.33	0.20	1.08	
8	Spray	Custom							
9	Combine	6.59 Ac/hr	0.18	0.15	1.14D	1.47	0.52	3.13	
10	Truck	Custom							
11	Auger	2500 Bu/hr	0.02	0.02	0.02D	0.04	0.01	0.07	

Subtotal 1.22 Hrs 5.98 3.02 2.64 \$11.64

Diesel 8.92 Gal @ \$0.60 \$5.35

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Sorghum	5	5	lb	1.10	5.50	\$5.50	
Fertilizer	Anhy Ammonia	3	50	lb N	0.13	6.50	13.25	
	10-34-0	5	5	gal	1.35	6.75		
Chemicals	Bicep II Mag	5	0.735	qt	9.94	7.31	9.01	
	Parathion 4E	8	0.5	lb	3.41	1.71		
Custom	Aerial Spray	8	1	acre	4.50	4.50	6.50	
	Truck	10	40	bu	0.05	2.00		
Rent	Anhy Applicator	3	1	acre	1.50	1.50	1.50	
Subtotal							\$35.76	
Total Operating Costs excluding Interest & Unpaid Labor							\$47.40	
Interest on Oper. Capital \$47.40 @ 8.5% for 8 Months							2.69	
Unpaid Labor 1.22 Hours @ \$7.50 /hr							9.18	
Total Operating Costs							\$59.27	

## Projected Returns

Grain 40 Bu @  
 Crop Residue 1 AUM @

Total Returns

Net Return above Operating Costs



B25

Returns Above Operating Costs Budget Worksheet  
 Cont. Grain Sorghum No Till, ff Eco Corn or Sorg  
 80 Bu Grain

SW  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16	0.07		0.38	
2 Spray	14.17 Ac/hr	0.08	0.07	0.15D	0.16	0.07		0.38	
3 Plant	6.53 Ac/hr	0.18	0.15	0.48D	0.35	0.62		1.45	
4 Spray	Custom								
5 Combine	6.59 Ac/hr	0.18	0.15	1.14D	1.47	0.52		3.13	
6 Truck	Custom								
7 Auger	2500 Bu/hr	0.04	0.03	0.04D	0.07	0.02		0.13	
Subtotal		0.56 Hrs		1.96	2.21	1.29		\$5.46	
Diesel	2.93 Gal @ \$0.60	\$1.76							

Materials & Services	Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sorghum Safened	3	4 lb	1.26	5.04	\$5.04	
Fertilizer	28-0-0	2	90 lb N	0.20	18.00	26.10	
	10-34-0	3	6 gal	1.35	8.10		
Chemicals	Roundup Ultra	1	1 pt	5.91	5.91	33.35	
	Atrazine 4L	2	2 pt	1.63	3.26		
	Banvel	2	0.5 pt	10.72	5.36		
	Dual II Mag	2	1.33 pt	12.75	16.96		
	Parathion 4E	4	0.5 lb	3.41	1.71		
	Ammon Sulfate	1	1.7 lb	0.09	0.15		
Custom	Aerial Spray	4	1 acre	4.50	4.50	8.50	
	Truck	6	80 bu	0.05	4.00		
Subtotal						\$72.99	
Total Operating Costs excluding Interest & Unpaid Labor						\$78.44	
Interest on Oper. Capital \$78.44 @ 8.5% for 8 Months						4.44	
Unpaid Labor 0.56 Hours @ \$7.50 /hr						4.23	
Total Operating Costs						\$87.11	

## Projected Returns

Grain	80 Bu	@	
Crop Residue	1 AUM	@	

Total Returns

Net Return above Operating Costs

B26

## Returns Above Operating Costs Budget Worksheet

Sunflower-Ecofallow, Follows winter wheat, 3yrs rotation

15 Acre-inches

15 cwt Grain

SW  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs Power Impl	Sub- Total	Your Estimate
		Labor	Mach				
1 Spray	14.17 Ac/hr	0.07	0.07	0.15D	0.16 0.07	0.38	
2 Spray	14.17 Ac/hr	0.07	0.07	0.15D	0.16 0.07	0.38	
3 Spray	14.17 Ac/hr	0.07	0.07	0.15D	0.16 0.07	0.38	
4 Spray	14.17 Ac/hr	0.07	0.07	0.15D	0.16 0.07	0.38	
5 Plant	6.53 Ac/hr	0.15	0.15	0.48D	0.35 0.62	1.45	
6 Combine	6.59 Ac/hr	0.15	0.15	1.14D	1.47 0.52	3.13	
7 Truck	Custom						
8 Auger	2500 Bu/hr	0.01	0.01	0.01D	0.01 0.01	0.03	

Subtotal 0.59 Hrs 2.23 2.47 1.40 \$6.10

Diesel 3.34 Gal @ \$0.60 \$2.00

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Sunflower	5	5 lb	2.04	10.20	\$10.20	
Fertilizer	28-0-0	5	60 lb N	0.20	12.00	12.00	
Chemicals	LandmasterBW	1	1 oz	0.16	0.16	39.55	
	Roundup Ultra	1	1.7 pt	5.91	10.05		
	Ammon Sulfate	2	40 lb	0.09	3.60		
	LandmasterBW	3	54 oz	0.16	8.64		
	Prowl	3	2 pt	3.63	7.26		
	Ammon Sulfate	3	1.7 lb	0.09	0.15		
	Roundup Ultra	4	1 pt	5.91	5.91		
	Prowl	4	1 pt	3.63	3.63		
	Ammon Sulfate	4	1.7 lb	0.09	0.15		
Custom	Truck, cwt	7	15 cwt	0.13	1.95	1.95	
Subtotal						\$63.70	
Total Operating Costs excluding Interest & Unpaid Labor						\$69.81	
Interest on Oper. Capital \$69.81 @ 8.5% for 8 Months						3.96	
Unpaid Labor 0.59 Hours @ \$7.50 /hr						4.43	
Total Operating Costs						\$78.20	

Projected Returns

Grain

15 cwt

@

Total Returns

Net Return above Operating Costs

B27

# Returns Above Operating Costs Budget Worksheet Cane Hay

3 Ton Hay

SW  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs Power Impl	Sub- Total	Your Estimate
		Labor	Mach				
1 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10 0.48	1.62	
2 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.10 0.48	1.62	
3 Field Cult	9.1 Ac/hr	0.13	0.11	0.62D	0.13 0.13	0.88	
4 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.17	0.71	
5 Drill	8.44 Ac/hr	0.14	0.12	0.54D	0.27 0.61	1.42	
6 Windrow	Custom						
7 Bale	3.96 Ton/hr	0.91	0.76	1.59D	1.75 4.08	7.42	
8 Move Bales	Custom						

Subtotal 1.56 Hrs 5.37 2.52 5.79 \$13.68

Diesel 8.06 Gal @ \$0.60 \$4.84

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Cane Hay, Sudan	5	20	lb	0.38	7.60	\$7.60	
Fertilizer	Anhy Ammonia	4	40	lb N	0.13	5.20	5.20	
Custom	Windrow	6	1	acre	8.00	8.00	20.00	
	Move Bales	8	6	bale	2.00	12.00		
Rent	Anhy Applicator	4	1	acre	1.50	1.50	1.50	
Other	Twine	7	6	bale	0.56	3.36	3.36	
Subtotal							\$37.66	
Total Operating Costs excluding Interest & Unpaid Labor							\$51.34	
Interest on Oper. Capital \$51.34 @ 8.5% for 8 Months							2.91	
Unpaid Labor 1.56 Hours @ \$7.50 /hr							11.70	
Total Operating Costs							\$65.95	

## Projected Returns

Hay 3 Ton @

Total Returns

Net Return above Operating Costs



# Description of the Crop Budgets for Northern Nebraska

Cultivated crops are generally not grown in the sandhills without irrigation. Irrigation is primarily by center-pivot. Native hay is produced on either sub-irrigated meadows of upland sites. Some non-irrigated crops are grown on the edges of the sandhills. Budgets for adjacent areas may be used for those interested in the non-irrigated crops.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

NO	1999 Machinery List-- Northern Nebraska							
				Current				
<u>Code Machine</u>	<u>Age at</u>		<u>Purchase</u>	<u>Ann'l</u>	<u>Yrs to</u>	<u>Trade</u>	<u>Value</u>	<u>Repairs</u>
	<u>Purchase</u>		<u>Price</u>	<u>Use</u>	<u>Trade</u>			
Power Units								
15 Tractor 105 hp diesel MFWD	0 yr	0 hr	\$52,000	500 hr	7	\$13,369	\$1.56 /hr	
16 Tractor 130 hp diesel MFWD	0 yr	0 hr	70,000	200 hr	12	20,171	0.84 /hr	
84 Combine 185 hp	0 yr	0 hr	113,000	200 hr	10	31,193	9.69 /hr	
94 Swather-Cond 16 Ft Self-Prop	0 yr	0 hr	68,800	150 hr	10	20,887	6.19 /hr	
402 Pump 80 HP Diesel 125' Lift(Pivot)	0 yr	0 hr	41,321	900 hr	10	0	0.60 /hr	
Implements								
31 Tandem Disk H.D. 30 Ft Fold	0 yr	0 ac	\$30,843	1,100 ac	15	\$7,894	\$0.48 /ac	
69 Row Crop Planter 8-30	0 yr	0 ac	22,544	500 ac	7	11,035	0.38 /ac	
77 Sprayer 30 Ft	0 yr	0 ac	4,454	1,787 ac	12	1,785	0.13 /ac	
88 Corn Head 8-30	0 yr	0 ac	31,267	1,000 ac	10	3,719	0.52 /ac	
96 Mower 2x9' tandem	0 yr	0 ac	10,000	1,450 ac	12	2,770	0.85 /ac	
97 Side Delivery rake 19'	0 yr	0 ac	8,100	1,383 ac	12	2,244	0.26 /ac	
99 Forage Harvester 2 Row	0 yr	0 ac	21,985	150 ac	10	9,295	1.88 /ac	
101 Round Baler 1500 Lb	0 yr	0 ton	19,840	400 ton	10	8,388	0.78 /ton	
111 Grain Auger 6"x61'	0 yr	0 bu000	2,550	150 bu000	20	241	0.26 /bu000	
500 Diesel Pivot 35psi	0 yr	0 hr	34,700	900 hr	15	0	0.56 /hr	

1999 Operations List Northern Nebraska

NO	Power	Imp	Energy/hr	Operation	Rate	Hrs / Acre		Cost per Acre								THII@	6.5%	Total
						Labor	Mach	Labor@	Fuel&	Repairs		Deprec						
Operation	Code	Code						\$7.50	Lube	Power	Impl	Power	Impl	Power	Impl			
All Irrig.	402	500	3.52 gal D	800 GPM		6.17	5.61	46.28	13.03	3.37	3.14	16.45	17.58	10.87	9.24	119.96		
Apply Anhy	16	Rent	5.57 gal D	6.87 Ac/hr		0.17	0.15	1.28	0.55	0.13		1.87		2.26		6.09		
Auger	15	111	2.12 gal D	2,500 Bu/hr		0.04	0.04	0.30	0.06	0.06	0.03	0.15	0.08	0.17	0.06	0.92		
Bale	15	101	3.18 gal D	7 Ton/hr		0.15	0.14	1.13	0.29	0.22	0.11	0.54	2.86	0.61	2.39	8.15		
Chop	Custom																	
Combine	84	88	11.40 gal D	5.39 Ac/hr		0.21	0.19	1.58	1.43	1.84	0.52	7.77	2.75	4.70	1.23	21.83		
Disc	16	31	19.08 gal D	12.14 Ac/hr		0.09	0.08	0.68	1.01	0.07	0.48	1.00	1.39	1.20	1.19	7.02		
Drill	15	Rent	6.89 gal D	6 Ac/hr		0.19	0.17	1.43	0.77	0.27		0.66		0.74		3.87		
Dry	Custom																	
Move Bales	Custom																	
Mow	15	96	3.98 gal D	7.6 Ac/hr		0.14	0.13	1.05	0.34	0.20	0.85	0.50	0.42	0.57	0.30	4.23		
Pack	16		3.98 gal D	6.35 Ac/hr		0.18	0.16	1.35	0.42	0.13		1.99		2.41		6.30		
Plant	15	69	3.98 gal D	6.53 Ac/hr		0.17	0.15	1.28	0.39	0.23	0.38	0.58	3.29	0.66	2.29	9.09		
Rake	15	97	2.12 gal D	9.89 Ac/hr		0.11	0.10	0.83	0.14	0.16	0.26	0.39	0.35	0.44	0.25	2.82		
Spray w/Disc		77		12.14 Ac/hr		0.09	0.08	0.68			0.13		0.12		0.12	1.05		
Spread Fert.	Custom																	
Truck	Custom																	
Windrow	94		3.98 gal D	5.07 Ac/hr		0.22	0.20	1.65	0.53	1.24		6.39		4.09		13.90		

Diesel@ \$0.60 /gal

If operation rate is other than Ac/hr  
costs shown above are for:

100 bushels/acre

10 Acre Inches

1 tons/acre

Budgeted Production Costs Summary  
Northern Nebraska 1999

Budget	B28	B29	B30	B31	B32	B33	B34	B35
Crop	Corn	Corn	Alfalfa	Alfalfa	Grass	Grass	Native	Native
Description	Grain	Silage	Hay	Hay	Hay	Pasture	Hay	Hay
	Pivot	Pivot	Pivot	Pivot	Pivot	Pivot	Subirr	Upland
	Cont	Cont	Estab	Estab	Fall			
Yield	140.0 Bu	19.0 Ton	5.0 Ton	5.0 Ton	10.0 AUM	1.3 Ton	0.7 Ton	
	Corn	Silage	Hay	Hay	Hay	Pasture	Hay	Hay
Mgt Fee/unit	\$0.25	\$2.00		\$6.00			\$5.00	\$5.00
Land Invest.	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$350	\$350
Unimp.	861	861	861	861	861	861	350	350
Irrig	309	309	309	309	309	309		
Mach Invest	\$249.15	\$248.47	\$48.60	\$209.15	\$48.60		\$126.25	\$63.46
Op Cost/ac	\$174.96	\$291.98	\$95.81	\$91.54	\$127.99	\$80.02	\$13.21	\$7.90
Overhead	8.75	14.60	4.79	4.58	6.40	4.00	0.66	0.40
Unpaid Mgt	35.00	38.00		30.00			6.50	3.50
Land Interest	32.70	32.70		32.70		32.70	14.70	14.70
Irrig Interest	11.76	11.76		11.76		11.76		
RE Taxes	\$20.48	\$20.48		\$20.48		\$20.48	\$6.13	\$6.13
Irrig Deprec	34.03	34.03		34.03		34.03		
Land Subtotal	\$98.97	\$98.97		\$98.97		\$98.97	\$20.83	\$20.83
Mach. Interest	\$16.19	\$16.15	\$3.16	\$13.59	\$3.16		\$8.21	\$4.12
Mach. Deprec	21.22	15.63	3.06	20.57	3.06	(0.00)	10.97	4.46
Mach. Subtotal	\$37.41	\$31.78	\$6.22	\$34.16	\$6.22	(\$0.00)	\$19.18	\$8.58
Total Owner Costs	\$136.38	\$130.75	\$6.22	\$133.13	\$6.22	\$98.97	\$40.00	\$29.41
Estab Costs				\$106.82		\$141.27		
Years				5		5		
Per Year				\$21.36		\$28.25		
Total Cost/ac	\$355.09	\$475.33	\$106.82	\$280.61	\$140.61	\$211.24	\$60.37	\$41.21
Total Cost/unit	\$2.54	\$25.02		\$56.12		\$21.12	\$46.44	\$58.87



B28

Returns Above Operating Costs Budget Worksheet  
 Cont. Corn Grain, Pivot Irrig., Diesel, 206' Head  
 15 Acre-inches 140 Bu Corn

NO  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs Power Impl	Sub- Total	Your Estimate
		Labor	Mach				
1 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.12	0.66	
2 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.07 0.48	1.59	
3 Spray w/Disc	12.14 Ac/hr		0.08		0.13	0.13	
4 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.07 0.48	1.59	
5 Plant	6.53 Ac/hr	0.18	0.15	0.40D	0.24 0.38	1.02	
6 All Irrig.	800 GPM	0.51	8.42	19.55D	5.05 4.71	29.31	
7 Combine	5.39 Ac/hr	0.23	0.19	1.40D	1.80 0.52	3.72	
8 Truck	Custom						
9 Auger	2500 Bu/hr	0.07	0.06	0.08D	0.09 0.04	0.21	
10 Dry	Custom						

Subtotal 1.36 Hrs 24.05 7.44 6.74 \$38.23

Diesel 36.42 Gal @ \$0.60 \$21.85

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	5	0.33	bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	1	135	lb N	0.13	17.55	41.13	
	10-34-0	5	6	gal	1.35	8.10		
	10-0-0-10Z	5	4	gal	2.37	9.48		
	28-0-0	5	30	lb N	0.20	6.00		
Chemicals	Bullet	3	3	qt	4.73	14.19	20.75	
	Dipel ES	6	0.67	pt	4.95	3.32		
	Lorsban 4E	6	0.33	pt	7.50	2.48		
	Cygon	6	0.14	pt	5.50	0.77		
Custom	Drying	10	140	bu	0.10	14.00	21.00	
	Truck	8	140	bu	0.05	7.00		
Rent	Anhy Applicator	1	1	acre	1.50	1.50	1.50	
Subtotal							\$117.71	
Total Operating Costs excluding Interest & Unpaid Labor							\$155.94	
Interest on Oper. Capital		\$155.94 @	8.5%	for 8 Months			8.84	
Unpaid Labor		1.36	Hours @	\$7.50	/hr		10.18	
Total Operating Costs							\$174.96	

## Projected Returns

Corn	140	Bu	@	
Crop Residue	2	AUM	@	
Total Returns				
Net Return above Operating Costs				

NOTE: Rates and Aerial Spray acres have been adjusted to reflect the following:

Dipel 10G and Warrior, T: applied 1 of 5 years  
 Lorsban: 1 of 3 years; and Cygon: 1 of 7 years

B29 Returns Above Operating Costs Budget Worksheet  
 Cont. Corn Silage Center Pivot Irrig., Diesel, 206' Head  
 15 Acre-inches 19 Ton Silage

NO  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.54D	0.12		0.66	
2 Disc	12.15 Ac/hr	0.10	0.08	1.04D	0.07	0.48	1.59	
3 Spray w/Disc	12.15 Ac/hr		0.08			0.13	0.13	
4 Disc	12.15 Ac/hr	0.10	0.08	1.04D	0.07	0.48	1.59	
5 Plant	6.53 Ac/hr	0.18	0.15	0.40D	0.24	0.38	1.02	
6 All Irrig.	800 GPM	0.51	8.42	19.55D	5.05	4.71	29.31	
7 Chop	Custom							
8 Truck	Custom							
9 Pack	2.5 Ac/hr	0.48	0.40	1.05D	0.34		1.39	
Subtotal		1.54 Hrs		23.62	5.89	6.18	\$35.69	

Diesel 35.71 Gal @ \$0.60 \$21.43

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	5	0.33	bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	1	135	lb N	0.13	17.55	41.13	
	10-34-0	5	6	gal	1.35	8.10		
	10-0-0-10Z	5	4	gal	2.37	9.48		
	28-0-0	5	30	lb N	0.20	6.00		
Chemicals	Bullet	3	3	qt	4.73	14.19	20.75	
	Dipel ES	6	0.67	pt	4.95	3.32		
	Lorsban 4E	6	0.33	pt	7.50	2.48		
	Cygon	6	0.14	pt	5.50	0.77		
Custom	Chop Silage	7	19	ton	4.50	85.50	133.00	
	Truck Silage	8	19	ton	2.50	47.50		
Rent	Anhy Applicator	1	1	acre	1.50	1.50	1.50	
Subtotal							\$229.71	
Total Operating Costs excluding Interest & Unpaid Labor							\$265.41	
Interest on Oper. Capital		\$265.41	@	8.5%	for 8 Months		15.04	
Unpaid Labor		1.54	Hours	@ \$7.50	/hr		11.53	
Total Operating Costs							\$291.98	

Projected Returns

Silage 19 Ton @

Total Returns

Net Return above Operating Costs

NOTE: Rates and Aerial Spray acres have been adjusted to reflect the following:

Dipel 10G and Warrior, T: applied 1 of 5 years  
 Lorsban: 1 of 3 years; and Cygon: 1 of 7 years

B30

Returns Above Operating Costs Budget Worksheet  
 Estab Alfalfa In Stubble, Pivot Irrig, Diesel, 206' Head  
 4 Acre-inches

NO  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	Custom								
2 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.07	0.48		1.59	
3 Drill	6 Ac/hr	0.20	0.17	0.76D	0.26			1.02	
4 All Irrig.	800 GPM	0.13	2.24	5.21D	1.35	1.26		7.82	
Subtotal		0.43 Hrs		7.01	1.68	1.74		\$10.43	
Diesel	10.58 Gal @ \$0.60			\$6.35					

Materials & Services		Oper- tion #	Rate		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
			per Acre					
Seed	Alfalfa w/inoc	3	12 lb		3.68	44.16	\$44.16	
Fertilizer	0-46-0	1	60 lb P205		0.28	16.80	24.00	
	Ammon Sulfate	1	80 lb		0.09	7.20		
Custom	Brdcast Spread	1	1 acre		4.00	4.00	4.00	
Rent	Grain drill	3	1 acre		5.00	5.00	5.00	
Subtotal							\$77.16	
Total Operating Costs excluding Interest & Unpaid Labor							\$87.59	
Interest on Oper. Capital			\$87.59 @ 8.5%		for 8 Months		4.96	
Unpaid Labor			0.43 Hours @ \$7.50		/hr		3.26	
Total Operating Costs							\$95.81	



B31

Returns Above Operating Costs Budget Worksheet  
Alfalfa Hay, Center Pivot Irrig., Diesel, 206' Head

18 Acre-inches 5 Ton Hay

NO  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs Power Impl	Sub- Total	Your Estimate
		Labor	Mach				
1 Spread Fert.	Custom						
2 Windrow	5.07 Ac/hr	0.24	0.20	0.52D	1.22	1.74	
3 Bale .04	7 Ton/hr	0.04	0.03	0.06D	0.04 0.16	0.26	
4 Windrow	5.07 Ac/hr	0.24	0.20	0.52D	1.22	1.74	
5 Bale .03	7 Ton/hr	0.02	0.02	0.04D	0.03 0.11	0.18	
6 Windrow	5.07 Ac/hr	0.24	0.20	0.52D	1.22	1.74	
7 Bale .03	7 Ton/hr	0.02	0.02	0.04D	0.03 0.11	0.18	
8 All Irrig.	800 GPM	0.61	10.10	23.46D	6.06 5.65	35.17	
9 Move Bales							

Subtotal 1.41 Hrs 25.16 9.82 6.03 \$41.01

Diesel 38.16 Gal @ \$0.60 \$22.90

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	18-46-0	1	40 lb	0.13	5.20	\$6.01	
	Potass Sulphate	1	9 lb	0.09	0.81		
Custom	Brdcast Spread	1	1 acre	4.00	4.00	24.00	
	Move Bales	9	10 bale	2.00	20.00		
Other	Twine	3	4 bale	0.56	2.24	5.60	
	Twine	5	3 bale	0.56	1.68		
	Twine	7	3 bale	0.56	1.68		

Subtotal \$35.61

Total Operating Costs excluding Interest &amp; Unpaid Labor \$76.62

Interest on Oper. Capital \$76.62 @ 8.5% for 8 Months 4.34

Unpaid Labor 1.41 Hours @ \$7.50 /hr 10.58

Total Operating Costs \$91.54

## Projected Returns

Hay 5 Ton @

Crop Residue 1 AUM @

Total Returns

Net Return above Operating Costs

B32

## Returns Above Operating Costs Budget Worksheet

Establish Grass, Fall, Pivot Irrig., Diesel, 206' Head

4 Acre-inches

NO

99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	Custom								
2 Disc	12.14 Ac/hr	0.10	0.08	1.04D	0.07	0.48		1.59	
3 Drill	6 Ac/hr	0.20	0.17	0.76D	0.26			1.02	
4 All Irrig.	800 GPM	0.13	2.24	5.21D	1.35	1.26		7.82	

Subtotal 0.43 Hrs 7.01 1.68 1.74 \$10.43

Diesel 10.58 Gal @ \$0.60 \$6.35

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Grass	3	17 lb	3.50	59.50	\$59.50	
Fertilizer	0-46-0	1	50 lb P205	0.28	14.00	39.11	
	10-34-0	1	18 gal	1.35	24.30		
	Potass Sulphate	1	9 lb	0.09	0.81		
Custom	Brdcast Spread	1	1 acre	4.00	4.00	4.00	
Rent	Grain drill	3	1 acre	5.00	5.00	5.00	
Subtotal						\$107.61	
Total Operating Costs excluding Interest & Unpaid Labor						\$118.04	
Interest on Oper. Capital \$118.04 @ 8.5% for 8 Months						6.69	
Unpaid Labor 0.43 Hours @ \$7.50 /hr						3.26	
Total Operating Costs						\$127.99	

B33 Returns Above Operating Costs Budget Worksheet

Pasture, Center Pivot Irrig., Diesel, 206' Head

18 Acre-inches 10 AUM Pasture

Cost per Acre

NO  
99

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs Power Impl	Sub- Total	Your Estimate
		Labor	Mach				
1 All Irrig.	800 GPM	0.61	10.10	23.46D	6.06 5.65	35.17	
Subtotal		0.61 Hrs		23.46	6.06 5.65	\$35.17	

Diesel 35.55 Gal @ \$0.60 \$21.33

Materials & Services	Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer 28-0-0	1	175 lb N	0.20	35.00	\$35.00	
Other Temp Fencing	2	1 acre	1.00	1.00	1.25	
Move Cattle	3	1 acre	0.25	0.25		
Subtotal					\$36.25	
Total Operating Costs excluding Interest & Unpaid Labor					\$71.42	
Interest on Oper. Capital \$71.42 @ 8.5% for 8 Months					4.05	
Unpaid Labor 0.61 Hours @ \$7.50 /hr					4.55	
Total Operating Costs					\$80.02	

Projected Returns

Pasture 10 AUM @

Total Returns

Net Return above Operating Costs



B34

Returns Above Operating Costs Budget Worksheet  
 Native Subirrigated Meadow Hay  
 1.3 Ton Hay

NO  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Windrow	5.07 Ac/hr	0.24	0.20	0.52D	1.22			1.74	
2 Bale	5.46 Ton/hr	0.29	0.24	0.50D	0.37	1.02		1.89	
3 Move Bales	Custom								
Subtotal		0.53 Hrs		1.02	1.59	1.02		\$3.63	

Diesel 1.56 Gal @ \$0.60 \$0.94

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Custom	Move Bales	3	2 bale	2.00	4.00	\$4.00	
Other	Twine	2	2 bale	0.56	1.12	1.12	
Subtotal						\$5.12	
Total Operating Costs excluding Interest & Unpaid Labor						\$8.75	
Interest on Oper. Capital			\$8.75 @ 8.5% for 8 Months			0.50	
Unpaid Labor			0.53 Hours @ \$7.50 /hr			3.96	
Total Operating Costs						\$13.21	

## Projected Returns

Hay		1.3	Ton	@		
Crop Residue		1	AUM	@		
Total Returns						
Net Return above Operating Costs						

B35

## Returns Above Operating Costs Budget Worksheet

Native Upland Hay In Big Bale

0.7 Ton Hay

NO  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub- Total	Your Estimate
		Labor	Mach		Power	Impl		
1 Mow	7.6 Ac/hr	0.16	0.13	0.35D	0.21	0.85	1.41	
2 Rake	9.89 Ac/hr	0.12	0.10	0.14D	0.16	0.26	0.56	
3 Bale	3.53 Ton/hr	0.24	0.20	0.42D	0.31	0.55	1.28	
Subtotal		0.52 Hrs		0.91	0.68	1.66	\$3.25	

Diesel

1.36 Gal @ \$0.60 \$0.82

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Other	Twine	3	1 bale	0.56	0.56	\$0.56	
Subtotal						\$0.56	
Total Operating Costs excluding Interest & Unpaid Labor						\$3.81	
Interest on Oper. Capital			\$3.81 @ 8.5%	for 8 Months		0.22	
Unpaid Labor			0.52 Hours @ \$7.50	/hr		3.87	
Total Operating Costs						\$7.90	

Projected Returns

Hay

0.7 Ton

@

Total Returns

Net Return above Operating Costs

# Description of the Crop Budgets for Central Nebraska

Crop budgets have been prepared that are typical to irrigated and dryland farms of central Nebraska. Not all of these crops are necessarily raised on any one farm in the area.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

SC

## 1999 Machinery List-- South Central Nebraska

Code Machine	Age at Purchase		Purchase Price	Current	Yrs to Trade	Trade Value	Repairs
				Ann'l Use			
Power Units							
13 Tractor 40 hp diesel	12 yr	6,000 hr	\$21,000	200 hr	30	\$5,485	\$1.76 /hr
15 Tractor 105 hp diesel MFWD	12 yr	6,000 hr	52,000	330 hr	30	4,986	2.48 /hr
16 Tractor 130 hp diesel MFWD	0 yr	0 hr	70,000	500 hr	12	26,218	1.26 /hr
17 Tractor 160 hp diesel MFWD	0 yr	0 hr	82,632	500 hr	12	23,993	1.49 /hr
84 Combine 185 hp	0 yr	0 hr	113,000	330 hr	10	27,082	16.81 /hr
401 Pump 80 HP Diesel 125' Lift w/reuse	0 yr	0 hr	69,069	900 hr	22	0	1.10 /hr
403 Pump 105 HP Diesel 200' Lift(Pivot)	0 yr	0 hr	48,883	900 hr	17	0	0.69 /hr
Implements							
26 Chisel Plow 19 Ft	0 yr	0 ac	\$11,456	2,400 ac	12	\$5,811	\$0.43 /ac
30 Tandem Disk 21 Ft Fold	0 yr	0 ac	18,506	900 ac	15	4,737	0.44 /ac
37 Field Cultivator 28 Ft	0 yr	0 ac	13,097	1,200 ac	8	6,989	0.13 /ac
38 Cultivator 6-30	0 yr	0 ac	4,204	800 ac	20	2,043	0.22 /ac
53 Spike Tooth harrow 24 ft	0 yr	0 ac	2,100	150 ac	20	1,021	0.02 /ac
62 Presswheel Drill 16 Ft	0 yr	0 ac	24,216	540 ac	12	9,703	0.81 /ac
66 Row Crop Planter 6-30	0 yr	0 ac	16,711	500 ac	7	8,180	0.42 /ac
68 Min-Til Planter 6-30	0 yr	0 ac	25,733	500 ac	7	12,596	0.73 /ac
73 Anhydrous Appl. 21 Ft	0 yr	0 ac	13,220	500 ac	10	5,745	0.79 /ac
75 Boom Sprayer 50 Ft	0 yr	0 ac	5,653	450 ac	20	1,600	0.07 /ac
87 Corn Head 6-30	0 yr	0 ac	26,055	500 ac	10	5,235	0.30 /ac
89 Combine Grain Head 15'	0 yr	0 ac	10,667	540 ac	10	2,057	0.09 /ac
103 1 Ton Hay Stacker	0 yr	0 ac	23,016	200 ac	15	7,759	0.99 /ac
108 Corn Stalk Chopper 8-30"	0 yr	0 ac	8,510	950 ac	12	2,357	0.73 /ac
111 Grain Auger 6"x61'	0 yr	0 bu000	2,550	90 bu000	20	241	0.17 /bu000
113 Grain Cart 500 bu	0 yr	0 bu000	13,000	90 bu000	12	2,318	2.58 /bu000
302 No-Till Drill 20 Ft	0 yr	0 ac	44,595	250 ac	10	19,379	0.74 /ac
500 Diesel Pivot 35psi	0 yr	0 hr	34,700	900 hr	15	0	0.56 /hr
501 Gated Pipe	0 yr	0 hr	6,443	900 hr	15	0	0.20 /hr



1999 Operations List Central Nebraska

SC	Power	Imp	Operation	Cost per Acre											
				Hrs / Acre	Labor@	Fuel&	Repairs		Deprec		THII@	6.5%			
Operation	Code	Code	Energy/hr	Rate	Labor	Mach	\$7.50	Lube	Power	Impl	Power	Impl	Power	Impl	Total
Anhy Apply	17	73	5.57 gal D	6.87 Ac/hr	0.18	0.15	1.35	0.55	0.22	0.79	1.47	1.50	1.09	1.28	8.24
All Irrig.	403	500	4.72 gal D	800 GPM	0.33	5.61	2.48	17.48	3.87	3.14	19.74	17.58	12.84	9.24	86.38
All Irrig.	401	501	3.15 gal D	1,000 GPM	0.99	4.49	7.43	9.33	4.94	0.90	31.02	4.16	23.87	2.22	83.87
Auger	13	111	2.12 gal D	2,500 Bu/hr	0.05	0.04	0.38	0.06	0.07	0.02	0.10	0.13	0.18	0.10	1.04
Bale	Custom														
Cart	17	113	6.36 gal D	1,750 Bu/hr	0.07	0.06	0.53	0.25	0.09	0.26	0.59	0.99	0.43	0.59	3.73
Chisel	17	26	8.48 gal D	9.76 Ac/hr	0.12	0.10	0.90	0.56	0.15	0.43	0.98	0.20	0.72	0.24	4.18
Chop	Custom														
Combine	84	89	9.81 gal D	4.00 Ac/hr	0.30	0.25	2.25	1.62	4.20	0.09	6.51	1.59	3.66	0.82	20.74
Combine	84	87	11.40 gal D	3.50 Ac/hr	0.35	0.29	2.63	2.18	4.87	0.30	7.55	4.16	4.25	2.17	28.11
Disc w/Harrow	17	30	8.48 gal D	10.63 Ac/hr	0.11	0.09	0.83	0.50	0.13	0.44	0.88	1.02	0.65	0.87	5.32
Drill	16	62	5.57 gal D	5.62 Ac/hr	0.22	0.18	1.65	0.66	0.23	0.81	1.31	2.24	1.17	2.11	10.19
Dry	Custom														
Field Cult	17	37	8.48 gal D	12.22 Ac/hr	0.10	0.08	0.75	0.45	0.12	0.13	0.78	0.64	0.58	0.56	4.01
Harrow	15	53	2.12 gal D	12.33 Ac/hr	0.10	0.08	0.75	0.11	0.20	0.02	0.38	0.36	0.46	0.69	2.97
Haul & Stack	15	103	3.18 gal D	3.00 Ac/hr	0.40	0.33	3.00	0.69	0.82	0.99	1.57	5.09	1.90	5.17	19.22
No-till Drill	16	302	8.48 gal D	5.62 Ac/hr	0.22	0.18	1.65	1.01	0.23	0.74	1.31	10.09	1.17	8.64	24.84
Pack silage	17		3.98 gal D	35 Ton/hr	0.04	0.03	0.30	0.08	0.04		0.29		0.22		0.93
Plant	16	66	3.18 gal D	4.90 Ac/hr	0.24	0.20	1.80	0.42	0.25	0.42	1.46	2.44	1.30	1.70	9.78
Ridge Plant	16	68	3.98 gal D	4.90 Ac/hr	0.24	0.20	1.80	0.52	0.25	0.73	1.46	3.75	1.30	2.61	12.42
Rouge	Labor														
Row Crop Cult	17	38	3.18 gal D	5.29 Ac/hr	0.23	0.19	1.73	0.40	0.28	0.22	1.86	0.14	1.38	0.26	6.26
Seeder-Packer	15	Rent	3.18 gal D	5.62 Ac/hr	0.22	0.18	1.65	0.38	0.45		0.85		1.04		4.37
Shred	17	108	3.18 gal D	7.73 Ac/hr	0.16	0.13	1.20	0.27	0.19	0.73	1.27	0.54	0.94	0.39	5.53
Spray	Custom														
Spray	15	75	3.18 gal D	11.82 Ac/hr	0.10	0.08	0.75	0.17	0.20	0.07	0.38	0.45	0.46	0.54	3.02
Spread,Fert.	15	Rent	3.98 gal D	12.00 Ac/hr	0.10	0.08	0.75	0.21	0.20		0.38		0.46		2.00
Stack Bales	Labor														
Truck	Custom														
Truck Silage	Custom														
Windrow	Custom														

Diesel@ \$0.60 /gal

If operation rate is other than Ac/hr  
costs shown above are for:

100 bushels/acre

10 Acre Inches

1 tons/acre

Budgeted Production Costs Summary  
South Central Nebraska 1999

Budget Crop Description	C2 Corn Grain Pivot Irrig	C3 Corn Silage Pivot Irrig	C4 sorghum Grain Pivot Irrig	C5 Corn Grain Gravity Irrig	C6 Corn silage Gravity Irrig	C7 Soybeans Irrig Gravity Irrig	C8 Alfalfa Estab Irrig	C9 Alfalfa Hay Gravity Irrig	C10 Corn Grain Dryland	C11 Corn Grain Ecofallow
Yield	145.0 Bu Corn	20.0 Ton Silage	115.0 Bu Sorghum	150.0 Bu Corn	20.0 Ton Silage	47.0 Bu Soybeans		7.0 Ton Alfalfa	70.0 Bu. Corn	90.0 Bu. Corn
Mgt Fee/unit	\$0.25	\$2.00	\$0.23	\$0.25	\$2.00	\$0.61		\$6.00	\$0.25	\$0.25
Land Invest.	\$2,010	\$2,010	\$2,010	\$2,040	\$2,040	\$2,040	\$2,040	\$2,040	\$750	\$750
Unimp.	1,670	1,670	1,670	1,639	1,639	1,639	1,639	1,639	750	750
Irrig	340	340	340	401	401	401	401	401		
Mach Invest	\$298.77	\$231.06	\$262.55	\$305.96	\$244.08	\$203.08	\$104.58	\$471.00	\$220.65	\$180.33
Op Cost/ac	\$192.96	\$319.18	\$111.47	\$170.62	\$297.83	\$98.02	\$93.50	\$266.44	\$81.03	\$102.82
Overhead	9.65	15.96	5.57	8.53	14.89	4.90	4.68	13.32	4.05	5.14
Unpaid Mgt	36.25	40.00	26.45	37.50	40.00	28.67		42.00	17.50	22.50
Land Interest	64.14	64.14	64.14	65.54	65.54	65.54		65.54	40.50	60.75
Irrig Interest	13.05	13.05	13.05	16.06	16.06	16.06		16.06		
RE Taxes	\$35.18	\$35.18	\$35.18	\$35.70	\$35.70	\$35.70		\$35.70	\$13.13	\$19.69
Irrig Deprec	37.32	37.32	37.32	35.18	35.18	35.18		35.18		
Land Subtotal	\$149.68	\$149.68	\$149.68	\$152.48	\$152.48	\$152.48		\$152.48	\$53.63	\$80.44
Mach. Interest	\$19.42	\$15.02	\$17.07	\$19.89	\$15.87	\$13.20	\$6.80	\$30.62	\$14.34	\$11.72
Mach. Deprec	27.73	18.94	23.47	28.24	20.27	18.57	6.73	28.33	20.35	17.54
Mach. Subtotal	\$47.15	\$33.96	\$40.53	\$48.13	\$36.14	\$31.77	\$13.53	\$58.95	\$34.69	\$29.26
Total Owner Costs	\$196.83	\$183.64	\$190.21	\$200.61	\$188.62	\$184.25	\$13.53	\$211.43	\$88.32	\$109.70
Estab Costs								\$111.71		
Years								5		
Per Year								\$22.34		
Total Cost/ac	\$435.69	\$558.78	\$333.70	\$417.26	\$541.34	\$315.84	\$111.71	\$555.53	\$190.90	\$240.16
Total Cost/unit	\$3.00	\$27.94	\$2.90	\$2.78	\$27.07	\$6.72		\$79.36	\$2.73	\$2.67

Budgeted Production Costs Summary (continued)  
South Central Nebraska, 1999

Budget Crop Description	C12 Corn Silage Dryland	C13 Sorghum Grain Dryland	C14 Sorghum Grain Ecofallow	C15 Sorghum Grain Dryland No-till	C16 Soybeans Dryland	C17 Wheat No-till	C18 Wheat No-till	C19 Wheat Fallow Every 3 yr	C20 Alfalfa Estab Dryland	C21 Alfalfa Hay Dryland
Yield	9.0 Ton Silage	75.0 Bu. Sorghum	85.0 Bu. Sorghum	85.0 Bu. Sorghum	40.0 Bu. Beans	35.0 Bu. Wheat	45.0 Bu. Wheat	45.0 Ton Wheat	Alfalfa	3.5 Ton Alfalfa
Mgt Fee/unit	\$2.00	\$0.23	\$0.23	\$0.23	\$0.61	\$0.35	\$0.35	\$0.35		\$6.00
Land Invest.	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750
Unimp. Irrig	750	750	750	750	750	750	750	750	750	750
Mach Invest	\$175.45	\$232.03	\$171.08	\$125.34	\$201.40	\$224.89	\$226.44	\$219.07	\$137.58	\$27.41
Op Cost/ac	\$137.57	\$77.81	\$85.69	\$79.40	\$88.31	\$49.70	\$45.63	\$38.52	\$64.74	\$92.87
Overhead	6.88	3.89	4.28	3.97	4.42	2.49	2.28	1.93	3.24	4.64
Unpaid Mgt	18.00	17.25	19.55	19.55	24.40	12.25	15.75	15.75		21.00
Land Interest	40.50	40.50	60.75	40.50	40.50	40.50	40.50	60.75		40.50
Irrig Interest										
RE Taxes	\$13.13	\$13.13	\$19.69	\$13.13	\$13.13	\$13.13	\$13.13	\$19.69		\$13.13
Irrig Deprec										
Land Subtotal	\$53.63	\$53.63	\$80.44	\$53.63	\$53.63	\$53.63	\$53.63	\$80.44		\$53.63
Mach. Interest	\$11.40	\$15.08	\$11.12	\$8.15	\$13.09	\$14.62	\$14.72	\$14.24	\$8.94	\$1.78
Mach. Deprec	13.85	20.82	15.63	12.15	18.59	18.87	18.89	18.38	9.22	1.27
Mach. Subtotal	\$25.25	\$35.90	\$26.75	\$20.30	\$31.68	\$33.49	\$33.61	\$32.62	\$18.16	\$3.05
Total Owner Costs	\$78.88	\$89.53	\$107.19	\$73.92	\$85.30	\$87.11	\$87.24	\$113.06	\$18.16	\$56.68
Estab Costs										\$86.14
Years										5
Per Year										\$17.23
Total Cost/ac	\$241.33	\$188.48	\$216.71	\$176.84	\$202.43	\$151.55	\$150.90	\$169.26	\$86.14	\$192.42
Total Cost/unit	\$26.81	\$2.51	\$2.55	\$2.08	\$5.06	\$4.33	\$3.35	\$3.76		\$54.98



C2 Returns Above Operating Costs Budget Worksheet  
 Corn Grain following corn, Pivot Irrig, Diesel, 281' Head  
 12 Acre-inches 145 Bu Corn SC  
 99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Shred	7.73 Ac/hr	0.16	0.13	0.27D	0.19	0.73	1.19	
2	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
3	Anhy Apply	6.87 Ac/hr	0.18	0.15	0.53D	0.22	0.79	1.54	
4	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
5	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.26	0.42	1.11	
6	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
7	Spray .50	11.82 Ac/hr	0.05	0.04	0.09D	0.10	0.07	0.26	
8	All Irrig.	800 GPM	0.40	6.73	20.97D	4.65	3.77	29.39	
9	Spray	Custom							
10	Combine	3.5 Ac/hr	0.35	0.29	2.15D	4.80	0.30	7.25	
11	Cart	1750 Bu/hr	0.10	0.08	0.35D	0.12	0.36	0.83	
12	Truck	Custom							
13	Auger	2500 Bu/hr	0.07	0.06	0.08D	0.10	0.03	0.21	
14	Dry	Custom							

Subtotal 1.99 Hrs 26.33 11.00 7.56 \$44.89

Diesel 39.85 Gal @ \$0.60 \$23.91

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	5	0.33 bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	3	145 lb N	0.11	15.95	28.95	
	18-46-0	5	100 lb	0.13	13.00		
Chemicals	Bicep II	5	2.1 qt	8.73	18.33	39.13	
	Counter 20CR .5	5	8.7 lb	2.54	11.05		
	Exceed .50	7	1 oz	11.20	5.60		
	Dipel ES .33	8	1.85 pt	4.95	3.02		
	Lorsban 4E .10	9	1.5 pt	7.50	1.13		
Custom	Aerial Spray	9	0.1 acre	4.50	0.45	22.20	
	Truck	12	145 bu	0.05	7.25		
	Drying	14	145 bu	0.10	14.50		

Subtotal \$123.61

Total Operating Costs excluding Interest & Unpaid Labor \$168.50

Interest on Oper. Capital \$168.50 @ 8.5% for 8 Months 9.55

Unpaid Labor 1.99 Hours @ \$7.50 /hr 14.91

Total Operating Costs \$192.96

Projected Returns

Corn 145 Bu @

Crop Residue 2.5 AUM @

Total Returns

Net Return above Operating Costs

**Returns Above Operating Costs Budget Worksheet**  
 C3 Corn For Silage following corn, Pivot Irrig, Diesel, 281'  
 12 Acre-inches 20 Ton Silage SC 99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
2	Anhy Apply	6.87 Ac/hr	0.18	0.15	0.53D	0.22	0.79	1.54	
3	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
4	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.26	0.42	1.11	
5	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
6	Spray .50	11.82 Ac/hr	0.05	0.04	0.09D	0.10	0.07	0.26	
7	All Irrig.	800 GPM	0.40	6.73	20.97D	4.65	3.77	29.39	
8	Spray	Custom							
9	Chop	Custom							
10	Truck Silage	Custom							
11	Pack silage	35 Ton/hr	0.68	0.57	1.50D	0.85		2.35	
Subtotal			2.00 Hrs		24.98	6.64	6.14	\$37.76	

Diesel 37.76 Gal @ \$0.60 \$22.66

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	4	0.33 bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	2	220 lb N	0.11	24.20	37.20	
	18-46-0	4	100 lb	0.13	13.00		
Chemicals	Bicep II	4	2.1 qt	8.73	18.33	39.13	
	Counter 20CR .5	4	8.7 lb	2.54	11.05		
	Exceed .50	6	1 oz	11.20	5.60		
	Dipel ES .33	7	1.85 pt	4.95	3.02		
	Lorsban 4E .10	8	1.5 pt	7.50	1.13		
Custom	Aerial Spray	8	0.1 acre	4.50	0.45	140.45	
	Chop Silage	9	20 ton	4.50	90.00		
	Truck Silage	10	20 ton	2.50	50.00		
Subtotal						\$250.11	
Total Operating Costs excluding Interest & Unpaid Labor						\$287.87	
Interest on Oper. Capital		\$287.87 @ 8.5% for 8 Months				16.31	
Unpaid Labor		2.00 Hours @ \$7.50 /hr				15.00	
Total Operating Costs						\$319.18	

**Projected Returns**

Silage 20 Ton @

Total Returns

Net Return above Operating Costs



C4 Returns Above Operating Costs Budget Worksheet  
Sorghum Grain, Limited Pivot Irrig, Diesel, 281' Head  
6 Acre-inches 115 Bu Sorghum

SC  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
2	Anhy Apply	6.87 Ac/hr	0.18	0.15	0.53D	0.22	0.79	1.54	
3	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
4	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.26	0.42	1.11	
5	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
6	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
7	Spray .25	11.82 Ac/hr	0.02	0.02	0.04D	0.05	0.07	0.16	
8	All Irrig.	800 GPM	0.20	3.37	10.49D	2.32	1.88	14.69	
9	Combine	4 Ac/hr	0.30	0.25	1.62D	4.20	0.09	5.91	
10	Truck	Custom							
11	Auger	2500 Bu/hr	0.06	0.05	0.06D	0.08	0.02	0.16	
12	Dry	Custom							
Subtotal			1.68 Hrs		15.03	7.97	4.59	\$27.59	

Diesel 22.73 Gal @ \$0.60 \$13.64

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Sorghum	4	10	lb	1.10	11.00	\$11.00	
Fertilizer	Anhy Ammonia	2	120	lb N	0.11	13.20	26.20	
	18-46-0	4	100	lb	0.13	13.00		
Chemicals	Bicep II	4	1	qt	8.73	8.73	11.54	
	Peak .25	7	1	oz	11.25	2.81		
Custom	Truck	10	115	bu	0.05	5.75	17.25	
	Drying	12	115	bu	0.10	11.50		
Subtotal							\$65.99	
Total Operating Costs excluding Interest & Unpaid Labor							\$93.58	
Interest on Oper. Capital			\$93.58 @ 8.5% for 8 Months				5.30	
Unpaid Labor			1.68 Hours @ \$7.50 /hr				12.59	
Total Operating Costs							\$111.47	
Projected Returns								
Sorghum			115	Bu	@			
Crop Residue			2.5	AUM	@			
Total Returns								
Net Return above Operating Costs								



C5 Returns Above Operating Costs Budget Worksheet  
 Corn For Grain following Soybeans, Gravity Irrig., Diesel  
 15 Acre-inches 150 Bu Corn SC  
 99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Shred	7.73 Ac/hr	0.16	0.13	0.27D	0.19	0.73	1.19	
2	Anhy Apply	4.9 Ac/hr	0.24	0.20	0.75D	0.30	0.79	1.84	
3	Spray .33	11.82 Ac/hr	0.04	0.03	0.06D	0.07	0.07	0.20	
4	Ridge Plant	4.9 Ac/hr	0.24	0.20	0.54D	0.26	0.73	1.53	
5	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
6	Spray .25	11.82 Ac/hr	0.02	0.02	0.04D	0.05	0.07	0.16	
7	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
8	All Irrig.	1000 GPM	1.48	6.73	14.00D	7.41	1.35	22.76	
9	Spray	Custom							
10	Spray	Custom							
11	Combine	3.5 Ac/hr	0.35	0.29	2.15D	4.80	0.30	7.25	
12	Cart	1750 Bu/hr	0.11	0.09	0.36D	0.13	0.41	0.90	
13	Truck	Custom							
14	Auger	2500 Bu/hr	0.07	0.06	0.08D	0.11	0.03	0.22	
15	Dry	Custom							

Subtotal 3.16 Hrs 19.05 13.88 4.91 \$37.84

Diesel 28.89 Gal @ \$0.60 \$17.34

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	4	0.33	bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	2	155	lb N	0.11	17.05	30.05	
	18-46-0	4	100	lb	0.13	13.00		
Chemical	2,4-D Ester .33	3	1	pt	2.22	0.73	13.39	
	Bicep II	4	1	qt	8.73	8.73		
	Spirit .25	6	1	oz	11.25	2.81		
	Dipel ES .33	9	0.6125	pt	4.95	1.00		
	Lorsban 4E .10	10	0.15	pt	7.50	0.11		
Custom	Aerial Spray	9	0.33	acre	4.50	1.49	24.44	
	Aerial Spray	10	0.1	acre	4.50	0.45		
	Truck	13	150	bu	0.05	7.50		
	Drying	15	150	bu	0.10	15.00		

Subtotal \$101.20

Total Operating Costs excluding Interest & Unpaid Labor \$139.04

Interest on Oper. Capital \$139.04 @ 8.5% for 8 Months 7.88

Unpaid Labor 3.16 Hours @ \$7.50 /hr 23.70

Total Operating Costs \$170.62

Projected Returns

Corn 150 Bu @

Crop Residue 2.5 AUM @

Total Returns

Net Return above Operating Costs

C6

Returns Above Operating Costs Budget Worksheet  
 Corn For Silage, Gravity Irrig., Diesel, 148' Head  
 15 Acre-inches 20 Ton Silage

SC  
99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub-Total	Your Estimate
			Labor	Mach		Power	Impl		
1	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
2	Anhy Apply	6.87 Ac/hr	0.18	0.15	0.53D	0.22	0.79	1.54	
3	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
4	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.26	0.42	1.11	
5	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
6	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
7	All Irrig.	1000 GPM	1.48	6.73	14.00D	7.41	1.35	22.76	
8	Spray	Custom							
9	Spray	Custom							
10	Chop	Custom							
11	Truck Silage	Custom							
12	Pack silage	35 Ton/hr	0.68	0.57	1.50D	0.85		2.35	

Subtotal 3.26 Hrs 18.32 9.58 3.88 \$31.78

Diesel 27.67 Gal @ \$0.60 \$16.60

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	4	0.33	bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	2	220	lb N	0.11	24.20	37.20	
	18-46-0	4	100	lb	0.13	13.00		
Chemicals	Bicep II	4	0.9	qt	8.73	7.86	14.50	
	Counter 20CR .5	4	4.356	lb	2.54	5.53		
	Dipel ES .33	8	0.6125	pt	4.95	1.00		
	Lorsban 4E .10	9	0.15	pt	7.50	0.11		
Custom	Aerial Spray	8	0.33	acre	4.50	1.49	141.94	
	Aerial Spray	9	0.1	acre	4.50	0.45		
	Chop Silage	10	20	ton	4.50	90.00		
	Truck Silage	11	20	ton	2.50	50.00		

Subtotal \$226.97

Total Operating Costs excluding Interest & Unpaid Labor \$258.75

Interest on Oper. Capital \$258.75 @ 8.5% for 8 Months 14.66

Unpaid Labor 3.26 Hours @ \$7.50 /hr 24.42

Total Operating Costs \$297.83

Projected Returns

Silage 20 Ton @

Total Returns

Net Return above Operating Costs



C7

## Returns Above Operating Costs Budget Worksheet

Soybeans, Gravity Irrig., Diesel, 148' Head

9 Acre-inches 47 Bu Beans

SC

99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs Power	Impl	Sub-Total	Your Estimate
			Labor	Mach					
1	Spray	23.64 Ac/hr	0.05	0.04	0.09D	0.10	0.07	0.26	
2	Ridge Plant	4.9 Ac/hr	0.24	0.20	0.54D	0.26	0.73	1.53	
3	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
4	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
5	Spray .25	11.82 Ac/hr	0.02	0.02	0.04D	0.05	0.07	0.16	
6	All Irrig.	1000 GPM	0.89	4.04	8.40D	4.44	0.81	13.65	
7	Combine	4 Ac/hr	0.30	0.25	1.62D	4.20	0.09	5.91	
8	Truck	Custom							
9	Auger	2500 Bu/hr	0.02	0.02	0.03D	0.03	0.01	0.07	
Subtotal			1.98 Hrs		11.52	9.64	2.22	\$23.38	

Diesel

17.41 Gal @ \$0.60 \$10.45

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Soybeans w/Inoc	2	1.2 bag	17.00	20.40	\$20.40	
Fertilizer	18-46-0	2	50 lb	0.13	6.50	6.50	
Chemicals	2,4-D Ester .50	1	1 pt	2.22	1.11	21.07	
	Canopy	2	3 oz	2.61	7.83		
	Dual 8E	2	1 pt	8.63	8.63		
	Basagran .25	5	1.5 pt	9.34	3.50		
Custom	Truck	8	47 bu	0.05	2.35	2.35	
Other	Rogue Beans	3	1 acre	5.00	5.00	5.00	
Subtotal						\$55.32	
Total Operating Costs excluding Interest & Unpaid Labor						\$78.70	
Interest on Oper. Capital			\$78.70 @ 8.5%	for 8 Months		4.46	
Unpaid Labor			1.98 Hours @ \$7.50 /hr			14.86	
Total Operating Costs						\$98.02	

Projected Returns

Beans

47 Bu

@

Total Returns

Net Return above Operating Costs



C8

**Returns Above Operating Costs Budget Worksheet**  
**Establish Alfalfa(5 Yr)Gravity Irrig.,Diesel 148'Head**  
**6 Acre-inches**

SC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel& Lube	Repairs Power Impl				
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44		1.11	
2 Spread,Fert.	12 Ac/hr	0.10	0.08	0.22D	0.21			0.43	
3 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44		1.11	
4 Harrow	12.33 Ac/hr	0.10	0.08	0.11D	0.20	0.02		0.33	
5 Seeder-Packer	5.62 Ac/hr	0.22	0.18	0.37D	0.44			0.81	
6 Spray	11.82 Ac/hr	0.10	0.08	0.18D	0.21	0.07		0.46	
7 All Irrig.	1000 GPM	0.59	2.69	5.60D	2.96	0.54		9.10	
<b>Subtotal</b>		<b>1.31 Hrs</b>		<b>7.54</b>	<b>4.30</b>	<b>1.51</b>		<b>\$13.35</b>	

**Diesel** 11.31 Gal @ \$0.60 \$6.79

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Alfalfa w/inoc	5	12	lb	3.68	44.16	\$44.16	
Fertilizer	18-46-0	2	40	lb	0.13	5.20	5.20	
Chemicals	Buctril	6	1.5	pt	7.14	10.71	10.71	
Rent	BrdcastSpreader	2	1	acre	2.00	2.00	5.75	
	Seeder-Packer	5	1	acre	3.75	3.75		
Subtotal							\$65.82	
Total Operating Costs excluding Interest & Unpaid Labor							\$79.17	
Interest on Oper. Capital		\$79.17 @ 8.5% for 8 Months					4.49	
Unpaid Labor		1.31 Hours @ \$7.50 /hr					9.84	
Total Operating Costs							\$93.50	

C9 Returns Above Operating Costs Budget Worksheet  
 Alfalfa For Hay, Gravity Irrig., Diesel 148' Head  
 16 Acre-inches 7 Ton Alfalfa

SC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power	Impl			
1 Harrow	12.33 Ac/hr	0.10	0.08	0.11D	0.20	0.02		0.33	
2 Spread, Fert.	12 Ac/hr	0.10	0.08	0.22D	0.21			0.43	
3 Windrow	Custom								
4 Bale	Custom								
5 Stack Bales	Labor								
6 Haul & Stack	3 Ac/hr	0.40	0.33	0.70D	0.83	0.99		2.52	
7 Windrow	Custom								
8 Bale	Custom								
9 Stack Bales	Labor								
10 Haul & Stack	3 Ac/hr	0.40	0.33	0.70D	0.83	0.99		2.52	
11 Windrow	Custom								
12 Bale	Custom								
13 Stack Bales	Labor								
14 Haul & Stack	3 Ac/hr	0.40	0.33	0.70D	0.83	0.99		2.52	
15 Windrow	Custom								
16 Bale	Custom								
17 Stack Bales	Labor								
18 Haul & Stack	3 Ac/hr	0.40	0.33	0.70D	0.83	0.99		2.52	
19 All Irrig.	1000 GPM	1.58	7.18	14.93D	7.90	1.44		24.27	
20 Spray .25	16.55 Ac/hr	0.02	0.02	0.03D	0.04	0.07		0.14	
Subtotal		3.38 Hrs		18.09	11.67	5.47		\$35.23	

Diesel 27.37 Gal @ \$0.60 \$16.42

Materials & Services	Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer 18-46-0	2	40 lb	0.13	5.20	\$5.20	
Chemical Pursuit DG .25	20	1.4 oz	15.25	5.34	5.34	
Custom Windrow	3	1 acre	8.00	8.00	144.00	
Bale small sq	4	70 bale	0.40	28.00		
Windrow	7	1 acre	8.00	8.00		
Bale small sq	8	70 bale	0.40	28.00		
Windrow	11	1 acre	8.00	8.00		
Bale small sq	12	70 bale	0.40	28.00		
Windrow	15	1 acre	8.00	8.00		
Bale small sq	16	70 bale	0.40	28.00		
Rent Brdcast Spreader	2	1 acre	2.00	2.00	2.00	
Other Haying	5	1.4 hr	6.50	9.10	36.40	
Haying	9	1.4 hr	6.50	9.10		
Haying	13	1.4 hr	6.50	9.10		
Haying	17	1.4 hr	6.50	9.10		
Subtotal					\$192.94	
Total Operating Costs excluding Interest & Unpaid Labor					\$228.16	
Interest on Oper. Capital	\$228.16 @ 8.5%	for 8 Months			12.93	
Unpaid Labor	3.38 Hours @ \$7.50 /hr				25.35	
Total Operating Costs					\$266.44	

Projected Returns

Alfalfa 7 Ton @  
 Total Returns  
 Net Return above Operating Costs

C10

**Returns Above Operating Costs Budget Worksheet**  
**Corn For Grain, No Till, NonIrrigated**  
**70 Bu. Corn**

SC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.53D	0.22	0.79		1.54	
2 Spray	11.82 Ac/hr	0.10	0.08	0.18D	0.21	0.07		0.46	
3 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.26	0.42		1.11	
4 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22		0.90	
5 Spray .50	11.82 Ac/hr	0.05	0.04	0.09D	0.10	0.07		0.26	
6 Combine	4.5 Ac/hr	0.26	0.22	1.67D	3.74	0.30		5.71	
7 Truck	Custom								
8 Auger	2500 Bu./hr	0.04	0.03	0.04D	0.05	0.01		0.10	
9 Dry	Custom								

Subtotal 1.09 Hrs 3.34 4.86 1.87 \$10.07

Diesel 5.03 Gal @ \$0.60 \$3.02

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	3	0.17 bag	101.00	17.17	\$17.17	
Fertilizer	Anhy Ammonia	1	70 lb N	0.11	7.70	14.20	
	18-46-0	3	50 lb	0.13	6.50		
Chemicals	Bicep II	3	1.05 qt	8.73	9.17	16.99	
	2,4-D Ester	2	1 pt	2.22	2.22		
	Exceed .50	5	1 oz	11.20	5.60		
Custom	Truck	7	70 bu	0.05	3.50	10.50	
	Drying	9	70 bu	0.10	7.00		

Subtotal \$58.86

Total Operating Costs excluding Interest & Unpaid Labor \$68.93

Interest on Oper. Capital \$68.93 @ 8.5% for 8 Months 3.91

Unpaid Labor 1.09 Hours @ \$7.50 /hr 8.19

Total Operating Costs \$81.03

**Projected Returns**

Corn 70 Bu. @

Crop Residue 1 AUM @

Total Returns

Net Return above Operating Costs



C11

**Returns Above Operating Costs Budget Worksheet**  
**Corn EcoFallow, Follows Wheat In 3 Yr. Rotation**  
**90 Bu. Corn**

SC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spray	Custom								
2 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.53D	0.22	0.79		1.54	
3 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.26	0.42		1.11	
4 Spray .50	11.82 Ac/hr	0.05	0.04	0.09D	0.10	0.07		0.26	
5 Combine	4.5 Ac/hr	0.26	0.22	1.67D	3.74	0.30		5.71	
6 Truck	Custom								
7 Auger	2500 Bu./hr	0.05	0.04	0.05D	0.06	0.02		0.13	
8 Dry	Custom								

Subtotal 0.78 Hrs 2.77 4.38 1.59 \$8.74

Diesel 4.19 Gal @ \$0.60 \$2.51

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	3	0.17	bag	101.00	17.17	\$17.17	
Fertilizer	Anhy Ammonia	2	85	lb N	0.11	9.35	15.85	
	18-46-0	3	50	lb	0.13	6.50		
Chemicals	Atrazine 90DF	1	2.2	lb	2.87	6.31	32.52	
	RoundupUltraAMS	1	1	pt	5.07	5.07		
	Bicep II	3	2.1	qt	8.73	18.33		
	Exceed .25	4	1	oz	11.20	2.80		
Custom	Broadcast Spray	1	1	acre	4.00	4.00	17.50	
	Truck	6	90	bu	0.05	4.50		
	Drying	8	90	bu	0.10	9.00		

Subtotal \$83.04

Total Operating Costs excluding Interest & Unpaid Labor \$91.77

Interest on Oper. Capital \$91.77 @ 8.5% for 8 Months 5.20

Unpaid Labor 0.78 Hours @ \$7.50 /hr 5.85

Total Operating Costs \$102.82

**Projected Returns**

Corn 90 Bu. @

Crop Residue 1 AUM @

**Total Returns**

Net Return above Operating Costs

C12

## Returns Above Operating Costs Budget Worksheet

Corn For Silage, Non-Irrigated

9 Ton Silage

SC

99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Anhy Apply	6.87 Ac/hr	0.18	0.15	0.53D	0.22	0.79	1.54	
2	Spray	11.82 Ac/hr	0.10	0.08	0.18D	0.21	0.07	0.46	
3	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.26	0.42	1.11	
4	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
5	Spray .50	11.82 Ac/hr	0.05	0.04	0.09D	0.10	0.07	0.26	
6	Chop	Custom							
7	Truck Silage	Custom							
8	Pack silage	25 Ton/hr	0.43	0.36	0.95D	0.54		1.49	
Subtotal			1.22 Hrs		2.58	1.61	1.56	\$5.75	

Diesel 3.89 Gal @ \$0.60 \$2.33

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	3	0.17 bag	101.00	17.17	\$17.17	
Fertilizer	Anhy Ammonia	1	110 lb N	0.11	12.10	18.60	
	18-46-0	3	50 lb	0.13	6.50		
Chemicals	Bicep II	2	1.05 qt	8.73	9.17	16.99	
	2,4-D Ester	2	1 pt	2.22	2.22		
	Exceed .50	5	1 oz	11.20	5.60		
Custom	Chop Silage	6	9 ton	4.50	40.50	63.00	
	Truck Silage	7	9 ton	2.50	22.50		
Subtotal						\$115.76	
Total Operating Costs excluding Interest & Unpaid Labor						\$121.50	
Interest on Oper. Capital \$121.50 @ 8.5% for 8 Months						6.89	
Unpaid Labor 1.22 Hours @ \$7.50 /hr						9.18	
Total Operating Costs						\$137.57	

Projected Returns

Silage

9 Ton

@

Total Returns

Net Return above Operating Costs

C13

Returns Above Operating Costs Budget Worksheet  
Sorghum For Grain, Non-Irrigated  
75 Bu. Sorghum

SC  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
2	Anhy Apply	6.87 Ac/hr	0.18	0.15	0.53D	0.22	0.79	1.54	
3	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
4	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.26	0.42	1.11	
5	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
6	Spray .50	11.82 Ac/hr	0.05	0.04	0.09D	0.10	0.07	0.26	
7	Combine	4.5 Ac/hr	0.26	0.22	1.44D	3.74	0.09	5.27	
8	Truck	Custom							
9	Auger	2500 Bu./hr	0.04	0.03	0.04D	0.05	0.01	0.10	
10	Dry	Custom							
Subtotal			1.21 Hrs		3.99	4.93	2.47	\$11.39	

Diesel 5.95 Gal @ \$0.60 \$3.57

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Sorghum Safened	4	5 lb	1.26	6.30	\$6.30	
Fertilizer	Anhy Ammonia	2	75 lb N	0.11	8.25	14.75	
	18-46-0	4	50 lb	0.13	6.50		
Chemicals	Bicep II	4	1.8 qt	8.73	15.71	21.34	
	Peak .50	6	1 oz	11.25	5.63		
Custom	Truck	8	75 bu	0.05	3.75	11.25	
	Drying	10	75 bu	0.10	7.50		
Subtotal						\$53.64	
Total Operating Costs excluding Interest & Unpaid Labor						\$65.03	
Interest on Oper. Capital \$65.03 @ 8.5% for 8 Months						3.69	
Unpaid Labor 1.21 Hours @ \$7.50 /hr						9.09	
Total Operating Costs						\$77.81	

Projected Returns

Sorghum

75 Bu.

@

Total Returns

Net Return above Operating Costs



C14

Returns Above Operating Costs Budget Worksheet  
Sorghum, Eco-Fallow, Follows Wheat In 3-Yrs. Rotation  
85 Bu. Sorghum

SC  
99

		Cost per Acre							99
Operation # Description	Operation Rate	Hrs per Acre		Fuel& Lube	Repairs		Sub- Total	Your Estimate	
		Labor	Mach		Power	Impl			
1 Spray	11.82 Ac/hr	0.10	0.08	0.18D	0.21	0.07	0.46		
2 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.53D	0.22	0.79	1.54		
3 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.26	0.42	1.11		
4 Spray .25	11.82 Ac/hr	0.02	0.02	0.04D	0.05	0.07	0.16		
5 Combine	4.5 Ac/hr	0.26	0.22	1.44D	3.74	0.09	5.27		
6 Truck	Custom								
7 Auger	2500 Ac/hr			D					
8 Dry	Custom								

Subtotal 0.80 Hrs 2.62 4.48 1.42 \$8.52

Diesel 3.95 Gal @ \$0.60 \$2.37

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sorghum Safened	3	5 lb	1.26	6.30	\$6.30	
Fertilizer	Anhy Ammonia	2	80 lb N	0.11	8.80	15.30	
	18-46-0	3	50 lb	0.13	6.50		
Chemicals	Atrazine 90DF	1	2.2 lb	2.87	6.31	32.52	
	RoundupUltraAMS	1	1 pt	5.07	5.07		
	Bicep II	3	2.1 qt	8.73	18.33		
	Exceed .25	4	1 oz	11.20	2.80		
Custom	Truck	6	85 bu	0.05	4.25	12.75	
	Drying	8	85 bu	0.10	8.50		

Subtotal \$66.87

Total Operating Costs excluding Interest & Unpaid Labor \$75.39

Interest on Oper. Capital \$75.39 @ 8.5% for 8 Months 4.27

Unpaid Labor 0.80 Hours @ \$7.50 /hr 6.03

Total Operating Costs \$85.69

Projected Returns

Sorghum 85 Bu. @  
Crop Residue 1 AUM @

Total Returns

Net Return above Operating Costs

C15

**Returns Above Operating Costs Budget Worksheet**  
**Sorghum For Grain, Continuous, No-till, Dryland**  
**85 Bu. Sorghum**

SC  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Spray	Custom							
2	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.26	0.42	1.11	
3	Spray .75	11.82 Ac/hr	0.07	0.06	0.13D	0.16	0.07	0.36	
4	Combine	4.5 Ac/hr	0.26	0.22	1.44D	3.74	0.09	5.27	
5	Truck	Custom							
6	Dry	Custom							
7	Auger	2500 Bu./hr	0.04	0.03	0.05D	0.06	0.01	0.12	
Subtotal			0.61 Hrs		2.05	4.22	0.58	\$6.85	
Diesel			3.05 Gal @ \$0.60	\$1.83					

Materials & Services	Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Sorghum Safened	2	5 lb	1.26	6.30	\$6.30
Fertilizer	28-0-0	1	90 lb N	0.06	5.40	11.90
	18-46-0	2	50 lb	0.13	6.50	
Chemicals	Bicep II	1	2.1 qt	8.73	18.33	28.99
	2,4-D Ester	1	1 pt	2.22	2.22	
	Peak .75	3	1 oz	11.25	8.44	
Custom	Broadcast Spray	1	1 acre	4.00	4.00	16.75
	Truck	5	85 bu	0.05	4.25	
	Drying	6	85 bu	0.10	8.50	
Subtotal					\$63.94	
Total Operating Costs excluding Interest & Unpaid Labor					\$70.80	
Interest on Oper. Capital					\$70.80 @ 8.5% for 8 Months	4.01
Unpaid Labor					0.61 Hours @ \$7.50 /hr	4.59
Total Operating Costs						\$79.40

**Projected Returns**

Sorghum	85 Bu.	@	
Crop Residue	1 AUM	@	
Total Returns			
Net Return above Operating Costs			

C16

# Returns Above Operating Costs Budget Worksheet Soybeans, Non-Irrigated

40 Bu. Beans

SC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
2 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
3 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.26	0.42	1.11	
4 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.28	0.22	0.90	
5 Spray .50	11.82 Ac/hr	0.05	0.04	0.09D	0.10	0.07	0.26	
6 Combine	4 Ac/hr	0.30	0.25	1.62D	4.20	0.09	5.91	
7 Truck	Custom							
8 Auger	2500 Bu./hr	0.02	0.02	0.02D	0.03	0.01	0.06	
Subtotal		1.06 Hrs		3.62	5.15	1.68	\$10.45	

Diesel 5.39 Gal @ \$0.60 \$3.23

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Soybeans w/Inoc	3	1.1	bag	17.00	18.70	\$18.70	
Chemicals	Canopy	3	6	oz	2.61	15.66	39.93	
	Dual 8E	3	2	pt	8.63	17.26		
	Basagran .50	5	1.5	pt	9.34	7.01		
Custom	Truck	7	40	bu	0.05	2.00	2.00	
Other	Rogue Beans	4	1	acre	5.00	5.00	5.00	
Subtotal							\$65.63	
Total Operating Costs excluding Interest & Unpaid Labor							\$76.08	
Interest on Oper. Capital			\$76.08 @	8.5%	for 8 Months		4.31	
Unpaid Labor			1.06	Hours @ \$7.50	/hr		7.92	
Total Operating Costs							\$88.31	

## Projected Returns

Beans

40 Bu.

@

## Total Returns

## Net Return above Operating Costs



C17

Returns Above Operating Costs Budget Worksheet  
 Wheat For Grain, Continuous Cropped  
 35 Bu. Wheat

SC  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Chisel	9.76 Ac/hr	0.12	0.10	0.57D	0.15	0.43	1.15	
2 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
3 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.53D	0.22	0.79	1.54	
4 Field Cult	12.22 Ac/hr	0.10	0.08	0.46D	0.12	0.13	0.71	
5 Drill	5.62 Ac/hr	0.22	0.18	0.65D	0.22	0.81	1.68	
6 Spray	16.55 Ac/hr	0.07	0.06	0.13D	0.15	0.07	0.35	
7 Combine	5.5 Ac/hr	0.22	0.18	1.18D	3.06	0.09	4.33	
8 Truck	Custom							
9 Auger	2500 Bu./hr	0.01	0.01	0.02D	0.02	0.00	0.04	
10 Spray	16.55 Ac/hr	0.07	0.06	0.13D	0.15	0.07	0.35	
Subtotal		1.09 Hrs		4.20	4.23	2.81	\$11.24	

Diesel 6.29 Gal @ \$0.60 \$3.78

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Wheat	5	60	lb	0.20	12.00	\$12.00	
Fertilizer	Anhy Ammonia	3	40	lb N	0.11	4.40	10.90	
	18-46-0	5	50	lb	0.13	6.50		
Chemicals	2,4-D Ester	6	0.5	pt	2.22	1.11	3.39	
	Ally	6	0.1	oz	22.75	2.28		
Custom	Truck	8	35	bu	0.05	1.75	1.75	
Subtotal							\$28.04	
Total Operating Costs excluding Interest & Unpaid Labor							\$39.28	
Interest on Oper. Capital		\$39.28 @ 8.5% for 8 Months					2.23	
Unpaid Labor		1.09 Hours @ \$7.50 /hr					8.19	
Total Operating Costs							\$49.70	

## Projected Returns

Wheat

35 Bu.

@

Total Returns

Net Return above Operating Costs

C18

Returns Above Operating Costs Budget Worksheet  
 Wheat For Grain, Continuous Cropped, No-Till  
 45 Bu. Wheat

SC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread, Fert.	12.22 Ac/hr	0.10	0.08	0.21D	0.20			0.41	
2 No-till Drill	5.62 Ac/hr	0.22	0.18	1.00D	0.22	0.74		1.96	
3 Spray	16.55 Ac/hr	0.07	0.06	0.13D	0.15	0.07		0.35	
4 Combine	5.5 Ac/hr	0.22	0.18	1.18D	3.06	0.09		4.33	
5 Truck	Custom								
6 Auger	2500 Bu./hr	0.02	0.02	0.03D	0.03	0.01		0.07	
Subtotal		0.62 Hrs		2.55	3.66	0.91		\$7.12	
Diesel	3.84 Gal @ \$0.60			\$2.31					

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	2	60	lb	0.20	12.00	\$12.00	
Fertilizer	46-0-0	1	50	lb N	0.11	5.50	12.00	
	18-46-0	2	50	lb	0.13	6.50		
Chemicals	2,4-D Ester	3	0.5	pt	2.22	1.11	3.39	
	Ally	3	0.1	oz	22.75	2.28		
Custom	Truck	5	45	bu	0.05	2.25	2.25	
Rent	BrdcastSpreader	1	1	acre	2.00	2.00	2.00	
Subtotal							\$31.64	
Total Operating Costs excluding Interest & Unpaid Labor							\$38.75	
Interest on Oper. Capital			\$38.75 @	8.5%	for 8 Months		2.20	
Unpaid Labor			0.62	Hours @ \$7.50	/hr		4.68	
Total Operating Costs							\$45.63	
Projected Returns								
Wheat			45	Bu.		@		
Total Returns								
Net Return above Operating Costs								

C19

Returns Above Operating Costs Budget Worksheet  
 Wheat For Grain, Fallow Every Third Yr.  
 45 Bu. Wheat

SC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Chisel	9.76 Ac/hr	0.12	0.10	0.57D	0.15	0.43		1.15	
2 Field Cult	12.22 Ac/hr	0.10	0.08	0.46D	0.12	0.13		0.71	
3 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.53D	0.22	0.79		1.54	
4 Field Cult	12.22 Ac/hr	0.10	0.08	0.46D	0.12	0.13		0.71	
5 Drill	5.62 Ac/hr	0.22	0.18	0.65D	0.22	0.81		1.68	
6 Spray	16.55 Ac/hr	0.07	0.06	0.13D	0.15	0.07		0.35	
7 Combine	5.5 Ac/hr	0.22	0.18	1.18D	3.06	0.09		4.33	
8 Truck	Custom								
9 Auger	2500 Bu./hr	0.02	0.02	0.03D	0.03	0.01		0.07	
10 Spray	16.55 Ac/hr	0.07	0.06	0.13D	0.15	0.07		0.35	

Subtotal 1.09 Hrs 4.14 4.22 2.51 \$10.87

Diesel 6.23 Gal @ \$0.60 \$3.74

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Wheat	5	1	lb	0.20	0.20	\$0.20	
Fertilizer	Anhy Ammonia	3	50	lb N	0.11	5.50	12.00	
	18-46-0	5	50	lb	0.13	6.50		
Chemical	2,4-D Ester	6	0.5	pt	2.22	1.11	3.39	
	Ally	6	0.1	oz	22.75	2.28		
Custom	Truck	8	45	bu	0.05	2.25	2.25	
Subtotal							\$17.84	
Total Operating Costs excluding Interest & Unpaid Labor							\$28.70	
Interest on Oper. Capital		\$28.70 @ 8.5% for 8 Months					1.63	
Unpaid Labor		1.09 Hours @ \$7.50 /hr					8.19	
Total Operating Costs							\$38.52	

## Projected Returns

Wheat

45 Bu.

@

Total Returns

Net Return above Operating Costs



C20

**Returns Above Operating Costs Budget Worksheet**  
**Establish Alfalfa(5 Yr.Life) Dryland**

SC  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.44	1.11	
2	Chisel	9.76 Ac/hr	0.12	0.10	0.57D	0.15	0.43	1.15	
3	Chisel	9.76 Ac/hr	0.12	0.10	0.57D	0.15	0.43	1.15	
4	Spread,Fert.	6.5 Ac/hr	0.18	0.15	0.40D	0.38		0.78	
5	Disc w/Harrow	12.22 Ac/hr	0.10	0.08	0.46D	0.12	0.44	1.02	
6	Harrow	12.33 Ac/hr	0.10	0.08	0.11D	0.20	0.02	0.33	
7	Seeder-Packer	5.62 Ac/hr	0.22	0.18	0.37D	0.44		0.81	
8	Spray	16.55 Ac/hr	0.07	0.06	0.13D	0.15	0.07	0.35	
Subtotal			1.01 Hrs		3.14	1.73	1.82	\$6.69	

Diesel 4.67 Gal @ \$0.60 \$2.80

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Alfalfa w/inoc	7	7 lb	3.68	25.76	\$25.76	
Fertilizer	18-46-0	4	40 lb	0.13	5.20	5.20	
Chemicals	Buctril	8	1.5 pt	7.14	10.71	10.71	
Rent	BrdcastSpreader	4	1 acre	2.00	2.00	5.75	
	Seeder-Packer	7	1 acre	3.75	3.75		
Subtotal						\$47.42	
Total Operating Costs excluding Interest & Unpaid Labor						\$54.11	
Interest on Oper. Capital			\$54.11 @ 8.5%	for 8 Months		3.07	
Unpaid Labor			1.01 Hours @ \$7.50	/hr		7.56	
Total Operating Costs						\$64.74	

C21

Returns Above Operating Costs Budget Worksheet  
Alfalfa Hay Non-Irrigated

3.5 Ton Alfalfa

SC

99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Repairs			Sub-Total	Your Estimate
			Labor	Mach	Lube	Power	Impl		
1	Harrow	12.33 Ac/hr	0.10	0.08	0.11D	0.20	0.02	0.33	
2	Windrow	Custom							
3	Bale	Custom							
4	Stack Bales	Labor							
5	Windrow	Custom							
6	Bale	Custom							
7	Stack Bales	Labor							
8	Windrow	Custom							
9	Bale	Custom							
10	Stack Bales	Labor							
11	Spray .25	16.55 Ac/hr	0.02	0.02	0.03D	0.04	0.07	0.14	

Subtotal 0.12 Hrs 0.14 0.24 0.08 \$0.46

Diesel 0.23 Gal @ \$0.60 \$0.14

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Chemical	Pursuit DG .25	11	1.4 oz	15.25	5.34	\$5.34	
Custom	Windrow	2	1 acre	8.00	8.00	67.20	
	Bale small sq	3	36 bale	0.40	14.40		
	Windrow	5	1 acre	8.00	8.00		
	Bale small sq	6	36 bale	0.40	14.40		
	Windrow	8	1 acre	8.00	8.00		
	Bale small sq	9	36 bale	0.40	14.40		
Other	Haying	4	0.72 hr	6.50	4.68	14.04	
	Haying	7	0.72 hr	6.50	4.68		
	Haying	10	0.72 hr	6.50	4.68		

Subtotal \$86.58

Total Operating Costs excluding Interest & Unpaid Labor \$87.04

Interest on Oper. Capital \$87.04 @ 8.5% for 8 Months 4.93

Unpaid Labor 0.12 Hours @ \$7.50 /hr 0.90

Total Operating Costs \$92.87

Projected Returns

Alfalfa

3.5 Ton

@

Total Returns

Net Return above Operating Costs

# Description of the Crop Budgets for Northeast Nebraska

The production systems budgeted here are representative of those in the rolling hills of northeast Nebraska with Moody-Crofton soils. Both dryland and center pivot irrigation budgets are provided for crops produced in this area. Center pivot irrigated corn and alfalfa establishment budgets are included for the sandy soils of Pierce, Antelope, and Holt Counties.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

NE		1999 Machinery List-- Northeastern Nebraska							
		Age at		Purchase	Ann'l	Yrs to	Trade		
<u>Code</u>	<u>Machine</u>	<u>Purchase</u>		<u>Price</u>	<u>Use</u>	<u>Trade</u>	<u>Value</u>	<u>Repairs</u>	
Power Units									
16	Tractor 130 hp diesel MFWD	12 yr	4,800 hr	\$70,000	200 hr	30	\$7,204	\$2.27 /hr	
17	Tractor 160 hp diesel MFWD	0 yr	0 hr	82,632	400 hr	12	24,668	1.19 /hr	
84	Combine 185 hp	0 yr	0 hr	113,000	200 hr	17	12,118	17.37 /hr	
402	Pump 80 HP Diesel 125' Lift(Pivot)	0 yr	0 hr	41,321	900 hr	17	0	0.60 /hr	
404	Pump 100 HP Elec 200' Lift(Pivot)	0 yr	0 hr	47,733	900 hr	20	0	0.36 /hr	
Implements									
30	Tandem Disk 21 Ft Fold	0 yr	0 ac	\$18,506	900 ac	20	\$4,492	\$0.50 /ac	
38	Cultivator 6-30	0 yr	0 ac	4,204	800 ac	12	2,132	0.12 /ac	
49	Roller Packer 15'	0 yr	0 ac	15,869	300 ac	8	4,785	0.28 /ac	
53	Spike Tooth harrow 24 ft	0 yr	0 ac	2,100	150 ac	12	1,065	0.01 /ac	
62	Presswheel Drill 16 Ft	0 yr	0 ac	24,216	540 ac	10	10,523	0.75 /ac	
66	Row Crop Planter 6-30	0 yr	0 ac	16,711	500 ac	10	7,262	0.48 /ac	
76	Boom Sprayer 50 Ft	0 yr	0 ac	5,653	1275 ac	15	1,998	0.08 /ac	
87	Corn Head 6-30	0 yr	0 ac	26,055	760 ac	10	4,005	0.48 /ac	
89	Combine Grain Head 15'	0 yr	0 ac	10,667	500 ac	20	305	0.18 /ac	
92	Pickup Head	0 yr	0 ac	7,500	760 ac	15	466	0.14 /ac	
95	Hay Swather-Cond 12 Ft	0 yr	0 ac	21,800	500 ac	19	4,556	0.91 /ac	
101	Round Baler 1500 Lb	0 yr	0 ton	19,840	800 ton	15	6,689	1.88 /ton	
103	1 Ton Hay Stacker	0 yr	0 ac	23,016	200 ac	20	6,280	1.24 /ac	
111	Grain Auger 6"x61'	0 yr	0 bu000	2,550	150 bu000	20	241	0.26 /bu000	
113	Grain Cart 500 bu	0 yr	0 bu000	13,000	510 bu000	20	1,229	9.92 /bu000	
206	Hay Baler Sm Sq Twine	0 yr	0 ton	13,889	400 ton	20	3,790	0.90 /ton	
500	Diesel Pivot 35psi	0 yr	0 hr	34,700	900 hr	15	0	0.56 /hr	
502	Elec Pivot 35psi	0 yr	0 hr	33,000	900 hr	15	0	0.56 /hr	



Budgeted Production Costs Summary  
North East Nebraska 1999

Budget Crop Description	D2 Corn Grain Pivot Sandy Soils	D3 Corn Grain Pivot Rolling Hills	D4 Corn Grain Dryland Rolling Hills	D5 Corn Grain Till-plant Rolling Hills	D6 Soybeans Dryland	D7 Soybeans Irrig Pivot	D8 Oats Dryland	D9 Oats Estab Alfalfa	D10 Alfalfa Estab Share of D9	D11 Alfalfa Estab Fall Sandy Soils	D12 Alfalfa Hay Large Round	D13 Alfalfa Hay Small Square
Yield	140.0 Bu Corn	130.0 Bu Corn	80.0 Bu Corn	80.0 Bu Corn	40.0 Bu Soybeans	50.0 Bu Soybeans	80.0 Bu Oats	80.0 Bu Oats	Alfalfa	Alfalfa	3.0 Ton Hay	3.0 Ton Alfalfa
Mgt Fee/unit	\$0.25	\$0.25	\$0.25	\$0.25	\$0.61	\$0.61	\$0.16	\$0.16			\$6.00	\$6.00
Land Invest.	\$1,730	\$1,730	\$980	\$980	\$980	\$1,730	\$980	\$980	\$980	\$980	\$980	\$980
Unimp.	1,421	1,403	980	980	980	1,403	980	980	980	980	980	980
Irrig	309	327				327						
Mach Invest	\$262.72	\$358.54	\$363.59	\$292.30	\$284.31	\$285.10	\$188.10	\$215.07	\$101.28	\$197.47	\$505.63	\$293.72
Op Cost/ac	\$162.69	\$182.22	\$138.04	\$133.23	\$63.39	\$102.91	\$116.51	\$133.43	\$73.65	\$86.61	\$49.26	\$105.87
Overhead	8.13	9.11	6.90	6.66	3.17	5.15	5.83	6.67	3.68	4.33	2.46	5.29
Unpaid Mgt	35.00	32.50	20.00	20.00	24.40	30.50	12.80	12.80			18.00	18.00
Land Interest	56.82	57.53	56.84	56.84	56.84	57.53	56.84	56.84			56.84	56.84
Irrig Interest	12.38	13.40				13.40						
RE Taxes	\$30.28	\$30.28	\$17.15	\$17.15	\$17.15	\$30.28	\$17.15	\$17.15			\$17.15	\$17.15
Irrig Deprec	34.03	32.42				32.42						
Land Subtotal	\$133.51	\$133.63	\$73.99	\$73.99	\$73.99	\$133.63	\$73.99	\$73.99			\$73.99	\$73.99
Mach. Interest	\$17.08	\$23.31	\$23.63	\$19.00	\$18.48	\$18.53	\$12.23	\$13.98	\$6.58	\$12.84	\$32.87	\$19.09
Mach. Deprec	19.30	25.07	25.68	20.20	22.03	22.07	14.96	17.85	6.80	15.25	30.99	22.44
Mach. Subtotal	\$36.38	\$48.37	\$49.31	\$39.20	\$40.51	\$40.60	\$27.19	\$31.82	\$13.39	\$28.09	\$63.85	\$41.53
Total Owner Costs	\$169.88	\$182.00	\$123.30	\$113.19	\$114.50	\$174.22	\$101.18	\$105.81	\$13.39	\$28.09	\$137.84	\$115.52
Estab Costs											\$90.72	\$90.72
Years											7	7
Per Year											\$12.96	\$12.96
Total Cost/ac	\$375.70	\$405.83	\$288.24	\$273.08	\$205.46	\$312.78	\$236.32	\$258.71	\$90.72	\$119.03	\$220.52	\$257.64
Total Cost/unit	\$2.68	\$3.12	\$3.60	\$3.41	\$5.14	\$6.26	\$2.95	\$3.23			\$73.51	\$85.88

1999 Operations List North East Nebraska

NE	Power	Imp	Operation	Cost per Acre											
				Hrs / Acre		Labor@	Fuel&	Repairs		Deprec		THIII@ 6.5%		Total	
Operation	Code	Code	Energy/hr	Rate	Labor	Mach				Power	Impl	Power	Impl		Power
All Irrig.	402	500	3.52 gal D	800 GPM	6.17	5.61	46.28	13.03	3.37	3.14	16.45	17.58	10.87	9.24	119.96
All Irrig.	404	502	66.67 Kwh E	800 GPM	6.17	5.61	46.28	14.40	2.02	3.14	15.50	16.92	12.44	8.80	119.50
Apply Anhy	17	Rent	5.57 gal D	6.22 Ac/hr	0.18	0.16	1.35	0.59	0.19		1.93		1.46		5.52
Auger	16	111	2.12 gal D	2,500 Bu/hr	0.04	0.04	0.30	0.06	0.09	0.03	0.42	0.08	0.52	0.06	1.55
Bale	16	206	2.12 gal D	5.1 Ton/hr	0.22	0.20	1.65	0.28	0.45	0.18	2.09	1.26	2.58	1.48	9.97
Bale	17	101	3.18 gal D	6.3 Ton/hr	0.18	0.16	1.35	0.34	0.19	0.30	1.93	1.10	1.46	1.11	7.78
Cart	16	113	6.36 gal D	1,750 Bu/hr	0.07	0.06	0.53	0.25	0.14	0.99	0.63	0.12	0.77	0.09	3.52
Combine	84	87	11.40 gal D	3.8 Ac/hr	0.29	0.26	2.18	1.96	4.52	0.48	7.71	2.90	5.54	1.38	26.67
Combine	84	89	9.81 gal D	3.8 Ac/hr	0.29	0.26	2.18	1.68	4.52	0.18	7.71	1.04	5.54	0.75	23.59
Combine	84	92	9.81 gal D	3.8 Ac/hr	0.29	0.26	2.18	1.68	4.52	0.14	7.71	0.62	5.54	0.36	22.75
Disc w/Harrow	17	30	8.48 gal D	7.8 Ac/hr	0.00	0.13	0.00	0.73	0.15	0.50	1.57	0.78	1.18	0.86	5.77
Drill	16	62	5.57 gal D	5.4 Ac/hr	0.00	0.19	0.00	0.70	0.43	0.75	1.99	2.54	2.45	2.17	11.03
Dry	Custom														
Harrow	17	53	2.12 gal D	12.33 Ac/hr	0.00	0.08	0.00	0.11	0.10	0.01	0.97	0.57	0.73	0.70	3.19
Move Bales	16	103	3.18 gal D	9 Ac/hr	0.12	0.11	0.90	0.23	0.25	1.24	1.15	4.18	1.42	4.90	14.27
Plant	16	66	3.18 gal D	4.9 Ac/hr	0.00	0.20	0.00	0.42	0.45	0.48	2.09	1.89	2.58	1.62	9.53
Rogue	Labor														
Roll	16	49	7.95 gal D	6.6 Ac/hr	0.00	0.15	0.00	0.79	0.34	0.28	1.57	4.62	1.93	2.39	11.92
Row Crop Cult	16	38	3.18 gal D	5.1 Ac/hr	0.00	0.20	0.00	0.42	0.45	0.12	2.09	0.22	2.58	0.26	6.14
Spray	16	76	3.18 gal D	10.2 Ac/hr	0.11	0.10	0.83	0.21	0.23	0.08	1.05	0.19	1.29	0.20	4.08
Spray	Custom														
Spray in tandem		76		7.8 Ac/hr	0.14	0.13	1.05			0.08		0.19		0.20	1.52
Spread Fert.	Custom														
Truck	Custom														
Windrow	17	95	3.18 gal D	5.7 Ac/hr	0.20	0.18	1.50	0.38	0.21	0.91	2.17	1.82	1.64	1.77	10.40

Diesel@ \$0.60 /gal

If operation rate is other than Ac/hr  
costs shown above are for:

100 bushels/acre

10 Acre Inches

1 tons/acre

Returns Above Operating Costs Budget Worksheet  
 Corn Grain.Pivot Irrig, Diesel,206'Head,Sandy Soils  
 10 Acre-inches 140 Bu Corn

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel& Lube	Power	Repairs Impl		
1	Apply Anhy	9.7 Ac/hr	0.12	0.10	0.38D	0.12		0.50	
2	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15	0.50	1.37	
3	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.46	0.48	1.37	
4	Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.41D	0.44	0.12	0.97	
5	All Irrig.	800 GPM	0.34	5.61	13.03D	3.37	3.14	19.54	
6	Combine	3.8 Ac/hr	0.31	0.26	1.70D	4.57	0.18	6.45	
7	Auger	2500 Bu/hr	0.07	0.06	0.08D	0.13	0.04	0.25	
8	Truck	Custom							
9	Dry	Custom							

Subtotal 1.48 Hrs 16.75 9.24 4.45 \$30.44

Diesel 25.36 Gal @ \$0.60 \$15.21

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	3	0.33	bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	1	100	lb N	0.13	13.00	45.13	
	10-34-0-1Z	3	12.5	gal	1.61	20.13		
	28-0-0	5	60	lb N	0.20	12.00		
Chemicals	Atrazine 90DF	3	0.55	lb	2.87	1.58	16.76	
	Counter 20CR .2	3	8	lb	2.54	5.08		
	Lasso 4EC	3	1	qt	5.75	5.75		
	Lorsban 4E .33	5	1	pt	7.50	2.48		
	Lorsban 4E .25	5	1	pt	7.50	1.88		
Rent	Anhy Applicator	1	1	acre	1.50	1.50	1.50	
Custom	Truck	8	140	bu	0.05	7.00	16.33	
	Drying	9	93.32	bu	0.10	9.33		

Subtotal \$113.05

Total Operating Costs excluding Interest & Unpaid Labor \$143.49

Interest on Oper. Capital \$143.49 @ 8.5% for 8 Months 8.13

Unpaid Labor 1.48 Hours @ \$7.50 /hr 11.07

Total Operating Costs \$162.69

Projected Returns

Corn 140 Bu @

Total Returns

Net Return above Operating Costs



D3

Returns Above Operating Costs Budget Worksheet  
 Corn Grain.Pivot Irrig, Elect.,281'Head Rolling Hills  
 7 Acre-inches 130 Bu Corn

NE  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15	0.50	1.37	
2 Apply Anhy	9.7 Ac/hr	0.12	0.10	0.38D	0.12		0.50	
3 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15	0.50	1.37	
4 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.46	0.48	1.37	
5 Spray	10.2 Ac/hr	0.12	0.10	0.21D	0.22	0.08	0.51	
6 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.41D	0.44	0.12	0.97	
7 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.41D	0.44	0.12	0.97	
8 All Irrig.	800 GPM	0.24	3.93	10.08E	1.41	2.20	13.69	
9 Combine	3.8 Ac/hr	0.31	0.26	1.70D	4.57	0.18	6.45	
10 Truck	Custom							
11 Auger	2500 Bu/hr	0.06	0.05	0.07D	0.12	0.03	0.22	
12 Dry	Custom							

Subtotal 1.88 Hrs 15.13 8.08 4.20 \$27.41

Diesel 7.64 Gal @ \$0.60 \$4.59  
 Electricity 262.01 KWH @ \$0.038 \$9.96

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.33	bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	2	130	lb N	0.13	16.90	28.24	
	10-34-0	4	8.4	gal	1.35	11.34		
Chemicals	Bladex 90DF	4	1.1	lb	5.90	6.49	30.35	
	Lasso 4EC	4	0.55	qt	5.75	3.16		
	2,4-D Ester	5	0.5	pt	2.22	1.11		
	Counter 20CR .7	4	8	lb	2.54	15.24		
	Lorsban 4E .33	8	1	pt	7.50	2.48		
	Lorsban 4E .25	8	1	pt	7.50	1.88		
Custom	Truck	10	130	bu	0.05	6.50	15.17	
	Drying	12	86.66	bu	0.10	8.67		
Rent	Anhy Applicator	2	1	acre	1.50	1.50	1.50	
Other	Hookup Charge	8	0.77	Kwh	30.00	23.10	23.10	
Subtotal							\$131.69	
Total Operating Costs excluding Interest & Unpaid Labor							\$159.10	
Interest on Oper. Capital \$159.10 @ 8.5% for 8 Months							9.02	
Unpaid Labor 1.88 Hours @ \$7.50 /hr							14.10	
Total Operating Costs							\$182.22	

## Projected Returns

Corn 130 Bu @  
 Crop Residue 2.5 AUM @

Total Returns

Net Return above Operating Costs

D4

Returns Above Operating Costs Budget Worksheet  
 Cont. Corn For Grain, Rolling Hills  
 80 Bu Corn

NE  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Apply Anhy	9.7 Ac/hr	0.12	0.10	0.38D	0.12			0.50	
2 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15	0.50		1.37	
3 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15	0.50		1.37	
4 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.46	0.48		1.37	
5 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.41D	0.44	0.12		0.97	
6 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.41D	0.44	0.12		0.97	
7 Spray	10.2 Ac/hr	0.12	0.10	0.21D	0.22	0.08		0.51	
8 Spray	Custom								
9 Combine	3.44 Ac/hr	0.35	0.29	1.88D	5.05	0.18		7.11	
10 Truck	Custom								
11 Auger	2500 Bu/hr	0.04	0.03	0.04D	0.07	0.02		0.13	
12 Dry	Custom								

Subtotal 1.66 Hrs 5.20 7.10 1.99 \$14.29

Diesel 7.89 Gal @ \$0.60 \$4.74

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	4	0.25	bag	101.00	25.25	\$25.25	
Fertilizer	Anhy Ammonia	1	80	lb N	0.13	10.40	21.74	
	10-34-0	4	8.4	gal	1.35	11.34		
Chemicals	Bladex 90DF	4	0.55	lb	5.90	3.25	42.27	
	Lasso 4EC	4	1	qt	5.75	5.75		
	2,4-D Ester	7	0.5	pt	2.22	1.11		
	Counter 20CR .7	4	8	lb	2.54	15.24		
	Furadan 15G .25	8	8	lb	8.46	16.92		
Custom	Aerial Spray	8	1	acre	4.50	4.50	13.83	
	Truck	10	80	bu	0.05	4.00		
	Drying	12	53.32	bu	0.10	5.33		
Rent	Anhy Applicator	1	1	acre	1.50	1.50	1.50	
Subtotal							\$104.59	
Total Operating Costs excluding Interest & Unpaid Labor							\$118.88	
Interest on Oper. Capital		\$118.88 @ 8.5% for 8 Months					6.74	
Unpaid Labor		1.66 Hours @ \$7.50 /hr					12.42	
Total Operating Costs							\$138.04	

## Projected Returns

Corn 80 Bu @  
 Crop Residue 2 AUM @

Total Returns

Net Return above Operating Costs



D5

Returns Above Operating Costs Budget Worksheet  
 Corn For Grain, Ridge-Till Plant Rolling Hills  
 80 Bu Corn

NE  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Apply Anhy	9.7 Ac/hr	0.12	0.10	0.38D	0.12		0.50	
2 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.46	0.48	1.37	
3 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.41D	0.44	0.12	0.97	
4 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.41D	0.44	0.12	0.97	
5 Spray	10.2 Ac/hr	0.12	0.10	0.21D	0.22	0.08	0.51	
6 Spray	Custom							
7 Combine	3.8 Ac/hr	0.31	0.26	1.70D	4.57	0.18	6.45	
8 Truck	Custom							
9 Auger	2500 Bu/hr	0.04	0.03	0.04D	0.07	0.02	0.13	
10 Dry	Custom							
Subtotal		1.31 Hrs		3.58	6.32	1.00	\$10.90	

Diesel 5.40 Gal @ \$0.60 \$3.24

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	2	0.25 bag	101.00	25.25	\$25.25	_____
Fertilizer	Anhy Ammonia	1	80 lb N	0.13	10.40	21.74	_____
	10-34-0	2	8.4 gal	1.35	11.34		
Chemicals	Bladex 90DF	2	1.1 lb	5.90	6.49	43.58	_____
	Lasso 4EC	2	1 qt	5.75	5.75		
	2,4-D Ester	5	0.5 pt	2.22	1.11		
	Force 1.5G .75	5	8.7 lb	2.04	13.31		
	Furadan 15G .25	6	8 lb	8.46	16.92		
Custom	Aerial Spray	6	1 acre	4.50	4.50	13.83	_____
	Truck	8	80 bu	0.05	4.00		
	Drying	10	53.32 bu	0.10	5.33		
Rent	Anhy Applicator	1	1 acre	1.50	1.50	1.50	_____
Subtotal						\$105.90	_____
Total Operating Costs excluding Interest & Unpaid Labor						\$116.80	_____
Interest on Oper. Capital		\$116.80 @	8.5%	for 8 Months		6.62	_____
Unpaid Labor		1.31	Hours @ \$7.50	/hr		9.81	_____
Total Operating Costs						\$133.23	_____

## Projected Returns

Corn 80 Bu @  
 Crop Residue 2 AUM @

Total Returns

Net Return above Operating Costs



D6

## Returns Above Operating Costs Budget Worksheet

Soybeans, Non-Irrigated

40 Bu Soybeans

NE  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs Power Impl	Sub- Total	Your Estimate
		Labor	Mach				
1 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15 0.50	1.37	
2 Spray in tandem	7.8 Ac/hr		0.13		0.08	0.08	
3 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15 0.50	1.37	
4 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.46 0.48	1.37	
5 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.41D	0.44 0.12	0.97	
6 Combine	3.8 Ac/hr	0.31	0.26	1.98D	4.57 0.48	7.03	
7 Truck	Custom						
8 Auger	2500 Bu/hr	0.02	0.02	0.02D	0.04 0.01	0.07	

Subtotal 1.13 Hrs 4.28 5.81 2.16 \$12.25

Diesel 6.48 Gal @ \$0.60 \$3.89

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Soybeans w/Inoc	4	1 bag	17.00	17.00	\$17.00	
Chemicals	Pursuit +	2	2.5 pt	8.29	20.72	20.72	
Custom	Truck	7	40 bu	0.05	2.00	2.00	
Subtotal						\$39.73	
Total Operating Costs excluding Interest & Unpaid Labor						\$51.98	
Interest on Oper. Capital			\$51.98 @ 8.5% for 8 Months			2.95	
Unpaid Labor			1.13 Hours @ \$7.50 /hr			8.46	
Total Operating Costs						\$63.39	

Projected Returns

Soybeans 40 Bu @

Total Returns

Net Return above Operating Costs

D7

Returns Above Operating Costs Budget Worksheet  
Soybeans, Pivot Irrig., Elect., 281' Head  
4 Acre-inches 50 Bu Soybeans

NE  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15	0.50	1.37	
2	Spray in tandem	7.8 Ac/hr		0.13			0.08	0.08	
3	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15	0.50	1.37	
4	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.46	0.48	1.37	
5	Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.41D	0.44	0.12	0.97	
6	All Irrig.	800 GPM	0.13	2.24	5.76E	0.81	1.26	7.83	
7	Rogue Labor								
8	Combine	3.8 Ac/hr	0.31	0.26	1.98D	4.57	0.48	7.03	
9	Truck Custom								
10	Auger	2500 Bu/hr	0.02	0.02	0.03D	0.05	0.01	0.09	

Subtotal 1.26 Hrs 10.05 6.63 3.42 \$20.10

Diesel 6.48 Gal @ \$0.60 \$3.89

Electricity 149.34 KWH @ \$0.038 \$5.67

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Soybeans w/Inoc	4	1	bag	17.00	17.00	\$17.00	
Chemicals	Pursuit +	2	2.5	pt	8.29	20.72	20.73	
Custom	Truck	9	50	bu	0.05	2.50	2.50	
Labor	Rogue Beans	7	1	acre	5.00	5.00	5.00	
Other	Hookup Charge	6	0.77	Kwh	30.00	23.10	23.10	
Subtotal							\$68.33	
Total Operating Costs excluding Interest & Unpaid Labor							\$88.43	
Interest on Oper. Capital			\$88.43 @	8.5%	for 8 Months		5.01	
Unpaid Labor			1.26	Hours @	\$7.50 /hr		9.47	
Total Operating Costs							\$102.91	
Projected Returns								
Soybeans			50	Bu	@			
Total Returns								
Net Return above Operating Costs								

D8

# Returns Above Operating Costs Budget Worksheet Oats, Non-Irrigated

80 Bu Oats

NE  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	Custom								
2 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15	0.50		1.37	
3 Drill	7.8 Ac/hr	0.16	0.13	0.47D	0.29	0.75		1.51	
4 Windrow	Custom								
5 Combine	3.8 Ac/hr	0.31	0.26	1.70D	4.57	0.14		6.41	
6 Truck	Custom								
7 Auger	2500 Bu/hr	0.04	0.03	0.04D	0.07	0.02		0.13	
Subtotal		0.66 Hrs		2.93	5.08	1.41		\$9.42	

Diesel 4.44 Gal @ \$0.60 \$2.66

Materials & Services	Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Alfalfa w/inoc	3	12 lb	3.68	44.16	\$55.16
	Oats	3	2 bu	5.50	11.00	
Fertilizer	30-10-0	1	250 lb	0.10	25.00	25.00
Custom	Brdcast Spread	1	1 acre	4.00	4.00	16.00
	Windrow	4	1 acre	8.00	8.00	
	Truck	6	80 bu	0.05	4.00	
Subtotal					\$96.16	
Total Operating Costs excluding Interest & Unpaid Labor					\$105.58	
Interest on Oper. Capital \$105.58 @ 8.5% for 8 Months					5.98	
Unpaid Labor 0.66 Hours @ \$7.50 /hr					4.95	
Total Operating Costs					\$116.51	
Projected Returns						
	Oats	80	Bu	@		
	Crop Residue	1	AUM	@		
Total Returns						
Net Return above Operating Costs						



D9

Returns Above Operating Costs Budget Worksheet  
Oats With Spring Alfalfa Seeding  
80 Bu Oats

NE  
99

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub-Total	Your Estimate
			Labor	Mach		Power	Impl		
1	Spread Fert.	Custom							
2	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15	0.50	1.37	
3	Drill	5.4 Ac/hr	0.23	0.19	0.68D	0.42	0.75	1.85	
4	Windrow	Custom							
5	Combine	3.8 Ac/hr	0.31	0.26	1.98D	4.57	0.48	7.03	
6	Truck	Custom							
7	Auger	2500 Bu/hr	0.04	0.03	0.04D	0.07	0.02	0.13	

Subtotal 0.73 Hrs 3.42 5.21 1.74 \$10.37

Diesel 5.19 Gal @ \$0.60 \$3.11

Materials & Services		Operation #	Rate		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
			per Acre					
Seed	Alfalfa w/inoc	3	12 lb		3.68	44.16	\$52.41	
	Oats	3	1.5 bu		5.50	8.25		
Fertilizer	18-46-0	1	175 lb		0.13	22.75	42.30	
	46-0-0	1	85 lb N		0.23	19.55		
Custom	Broadcast Spray	1	1 acre		4.00	4.00	16.00	
	Windrow	4	1 acre		8.00	8.00		
	Truck	6	80 bu		0.05	4.00		
Subtotal							\$110.71	
Total Operating Costs excluding Interest & Unpaid Labor							\$121.08	
Interest on Oper. Capital \$121.08 @ 8.5% for 8 Months							6.86	
Unpaid Labor 0.73 Hours @ \$7.50 /hr							5.49	
Total Operating Costs							\$133.43	

## Projected Returns

Oats 80 Bu @  
Crop Residue 1 AUM @

Total Returns

Net Return above Operating Costs

D10

Returns Above Operating Costs Budget Worksheet  
Alfalfa Seeding Cost Share With Oats

NE  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Spread Fert.	Custom							
2 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15	0.50	1.37	
3 Drill	5.4 Ac/hr	0.23	0.19	0.68D	0.42	0.75	1.85	
Subtotal		0.38 Hrs		1.40	0.57	1.24	\$3.21	
Diesel	2.16 Gal @ \$0.60	\$1.30						

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Alfalfa w/inoc	3	12 lb	3.68	44.16	\$44.16	
Fertilizer	18-46-0	1	120 lb	0.13	15.60	15.60	
Custom	Brdcast Spread	1	1 acre	4.00	4.00	4.00	
Subtotal						\$63.76	
Total Operating Costs excluding Interest & Unpaid Labor						\$66.97	
Interest on Oper. Capital			\$66.97 @ 8.5%	for 8 Months		3.80	
Unpaid Labor			0.38 Hours @ \$7.50	/hr		2.88	
Total Operating Costs						\$73.65	

D11

Returns Above Operating Costs Budget Worksheet  
Alfalfa Estab., Sandy Soils, Fall Seeding

NE  
99

		Hrs per Acre		Cost per Acre				99
Operation #	Description	Operation Rate	Labor	Mach	Fuel& Lube	Repairs Power Impl	Sub-Total	Your Estimate
1	Spread Fert.	Custom						
2	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15 0.50	1.37	
3	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.15 0.50	1.37	
4	Drill	5.4 Ac/hr	0.23	0.19	0.68D	0.42 0.75	1.85	
5	Roll	7 Ac/hr	0.17	0.14	0.75D	0.32 0.28	1.35	
Subtotal			0.71 Hrs		2.87	1.04 2.02	\$5.93	
Diesel		4.38 Gal @ \$0.60	\$2.63					
Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Alfalfa w/inoc	4	12	lb	3.68	44.16	\$44.16	
Fertilizer	18-46-0	1	130	lb	0.13	16.90	22.85	
	Sulfur	1	35	lb S	0.17	5.95		
Custom	Brdcast Spread	1	1	acre	4.00	4.00	4.00	
Subtotal							\$71.01	
Total Operating Costs excluding Interest & Unpaid Labor							\$76.94	
Interest on Oper. Capital			\$76.94 @ 8.5%		for 8 Months		4.36	
Unpaid Labor			0.71 Hours @ \$7.50		/hr		5.31	
Total Operating Costs							\$86.61	



D12

## Returns Above Operating Costs Budget Worksheet

Alfalfa Hay, Large Round Baler

3 Ton Hay

NE  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs Power Impl	Sub- Total	Your Estimate
		Labor	Mach				
1 Spread Fert.	Custom						
2 Spray .10	10.2 Ac/hr	0.01	0.01	0.02D	0.02 0.08	0.12	
3 Windrow	5.7 Ac/hr	0.22	0.18	0.37D	0.21 0.91	1.49	
4 Bale .33	6.3 Ac/hr	0.06	0.05	0.07D	0.12 0.28	0.47	
5 Move Bales	9 Ac/hr	0.66	0.11	0.23D	0.25 1.24	1.72	
6 Windrow	5.7 Ac/hr	0.22	0.18	0.37D	0.21 0.91	1.49	
7 Bale .33	6.3 Ac/hr	0.06	0.05	0.07D	0.12 0.28	0.47	
8 Move Bales	9 Ac/hr	0.66	0.11	0.23D	0.25 1.24	1.72	
9 Windrow	5.7 Ac/hr	0.22	0.18	0.37D	0.21 0.91	1.49	
10 Bale .34	6.3 Ac/hr	0.06	0.05	0.08D	0.12 0.28	0.48	
11 Move Bales	9 Ac/hr	0.66	0.11	0.23D	0.25 1.24	1.72	
Subtotal		2.82 Hrs		2.04	1.76 7.36	\$11.16	

Diesel 3.12 Gal @ \$0.60 \$1.87

Materials & Services	Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer 18-46-0	1	65 lb	0.13	8.45	\$8.45	
Chemicals Pounce	2	0.6 oz	1.34	0.80	0.80	
Custom Brdcast Spread	1	1 acre	4.00	4.00	4.00	
Other Twine	4	1.3 bale	0.56	0.73	2.18	
Twine	7	1.3 bale	0.56	0.73		
Twine	10	1.3 bale	0.56	0.73		
Subtotal					\$15.44	
Total Operating Costs excluding Interest & Unpaid Labor					\$26.60	
Interest on Oper. Capital		\$26.60 @ 8.5% for 8 Months			1.51	
Unpaid Labor		2.82 Hours @ \$7.50 /hr			21.15	
Total Operating Costs					\$49.26	

## Projected Returns

Hay 3 Ton @

Crop Residue 1 AUM @

## Total Returns

Net Return above Operating Costs

D13

Returns Above Operating Costs Budget Worksheet  
 Alfalfa Hay, Small Square  
 3 Ton Alfalfa

NE  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	Custom								
2 Spray .10	10.2 Ac/hr	0.01	0.01	0.02D	0.02	0.08		0.12	
3 Windrow	5.7 Ac/hr	0.22	0.18	0.37D	0.21	0.91		1.49	
4 Bale .33	5.1 Ton/hr	0.23	0.19	0.41D	0.23	1.82		2.46	
5 Move Bales	Custom								
6 Windrow	5.7 Ac/hr	0.22	0.18	0.37D	0.21	0.91		1.49	
7 Bale .33	5.1 Ton/hr	0.23	0.19	0.41D	0.23	1.82		2.46	
8 Move Bales	Custom								
9 Windrow	5.7 Ac/hr	0.22	0.18	0.37D	0.21	0.91		1.49	
10 Bale .34	5.1 Ton/hr	0.24	0.20	0.42D	0.24	1.91		2.57	
11 Move Bales	Custom								

Subtotal 1.36 Hrs 2.37 1.35 8.35 \$12.07

Diesel 3.59 Gal @ \$0.60 \$2.16

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	18-46-0	1	65	lb	0.13	8.45	\$8.45	
Chemicals	Pounce .10	2	6	oz	1.34	0.80	0.80	
Custom	Brdcast Spread	1	1	acre	4.00	4.00	49.00	
	Load & Stack	5	75	bale	0.20	15.00		
	Load & Stack	8	75	bale	0.20	15.00		
	Load & Stack	11	75	bale	0.20	15.00		
Other	Wire	4	75	bale	0.09	6.75	20.25	
	Wire	7	75	bale	0.09	6.75		
	Wire	10	75	bale	0.09	6.75		
Subtotal							\$78.50	
Total Operating Costs excluding Interest & Unpaid Labor							\$90.57	
Interest on Oper. Capital \$90.57 @ 8.5% for 8 Months							5.13	
Unpaid Labor 1.36 Hours @ \$7.50 /hr							10.17	
Total Operating Costs							\$105.87	

Projected Returns

Alfalfa

3 Ton

@

Total Returns

Net Return above Operating Costs

# Description of the Crop Budgets for East Central Nebraska

The farms representing this area of Nebraska are considered to have flat to rolling soils of Sharpsburg-Marshall-Shelby types with Loess parent material. Both dryland and center pivot irrigated budgets are provided for crops produced in this region. Areas of the Platte Valley and the west part of the area may more resemble the production areas of central Nebraska.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

EC		1999 Machinery List-- East Central Nebraska							
		Age at		Purchase	Current	Yrs to	Trade		
<u>Code</u>	<u>Machine</u>	<u>Purchase</u>		<u>Price</u>	<u>Use</u>	<u>Trade</u>	<u>Value</u>	<u>Repairs</u>	
Power Units									
16	Tractor 130 hp diesel MFWD	12 yr	7,200 hr	\$70,000	500 hr	30	\$6,203	\$4.66 /hr	
17	Tractor 160 hp diesel MFWD	0 yr	0 hr	82,632	600 hr	12	23,405	1.78 /hr	
84	Combine 185 hp	0 yr	0 hr	113,000	200 hr	10	31,193	9.69 /hr	
404	Pump 100 HP Elec 200' Lift	0 yr	0 hr	47,733	900 hr	20	0	0.36 /hr	
Implements									
30	Tandem Disk 21 Ft Fold	0 yr	0 ac	\$18,506	1,000 ac	15	\$4,737	\$0.46 /ac	
37	Field Cultivator 28 Ft	0 yr	0 ac	13,097	750 ac	15	6,505	0.14 /ac	
38	Cultivator 6-30	0 yr	0 ac	4,204	750 ac	12	2,132	0.11 /ac	
62	Presswheel Drill 16 Ft	0 yr	0 ac	24,216	250 ac	10	10,523	0.55 /ac	
66	Row Crop Planter 6-30	0 yr	0 ac	16,711	500 ac	10	7,262	0.48 /ac	
73	Anhydrous Appl. 21 Ft	0 yr	0 ac	13,220	600 ac	10	5,745	0.83 /ac	
75	Boom Sprayer 50 Ft	0 yr	0 ac	5,653	300 ac	10	2,457	0.05 /ac	
77	Sprayer 30 Ft	0 yr	0 ac	4,454	600 ac	15	1,574	0.10 /ac	
87	Corn Head 6-30	0 yr	0 ac	26,055	760 ac	10	4,005	0.48 /ac	
89	Combine Grain Head 15'	0 yr	0 ac	10,667	760 ac	20	136	0.28 /ac	
95	Hay Swather-Cond 12 Ft	0 yr	0 ac	21,800	400 ac	19	4,556	0.79 /ac	
101	Round Baler 1500 Lb	0 yr	0 ton	19,840	1,000 ton	15	6,689	2.24 /ton	
103	1 Ton Hay Stacker	0 yr	0 ac	23,016	200 ac	20	6,280	1.24 /ac	
111	Grain Auger 6"x61'	0 yr	0 bu000	2,550	150 bu000	20	241	0.26 /bu000	
502	Elec Pivot 35psi	0 yr	0 hr	33,000	900 hr	15	0	0.56 /hr	



1999 Operations List East Central Nebraska

EC Operation	Power Code	Imp Code	Energy/hr	Operation Rate	Hrs / Acre		Cost per Acre								Total	
					Labor	Mach	Labor@ \$7.50	Fuel& Lube	Repairs		Deprec		THII@ 6.5%		Total	
All Irrig.	404	502	66.67 Kwh E	800 GPM	6.17	5.61	46.28	14.40	2.02	3.14	15.50	16.92	12.44	8.80	119.50	
Apply Anhy	17	73	5.57 gal D	6.22 Ac/hr	0.18	0.16	1.35	0.59	0.29	0.83	1.32	1.25	0.96	1.07	7.65	
Apply Anhy	17	Rent	5.57 gal D	6.22 Ac/hr	0.18	0.16	1.35	0.59	0.29		1.32		0.96		4.51	
Auger	16	111	2.12 gal D	2,500 Bu/hr	0.04	0.04	0.30	0.06	0.19	0.03	0.17	0.08	0.20	0.06	1.09	
Bale	16	101	3.18 gal D	3.92 Ton/hr	0.29	0.26	2.18	0.55	1.21	0.58	1.11	0.88	1.32	0.89	8.72	
Combine	84	87	11.40 gal D	3.44 Ac/hr	0.32	0.29	2.40	2.18	2.81	0.48	11.86	2.90	7.18	1.38	31.19	
Combine	84	89	9.81 gal D	3.44 Ac/hr	0.32	0.29	2.40	1.88	2.81	0.28	11.86	0.69	7.18	0.48	27.59	
Cult	16	38	3.18 gal D	5.29 Ac/hr	0.21	0.19	1.58	0.40	0.89	0.11	0.81	0.23	0.97	0.28	5.27	
Disc w/harrow	17	30	8.48 gal D	9.62 Ac/hr	0.11	0.10	0.83	0.56	0.18	0.46	0.82	0.92	0.60	0.79	5.16	
Drill	16	62	5.57 gal D	9.62 Ac/hr	0.00	0.10	0.00	0.37	0.47	0.55	0.43	5.48	0.51	4.69	12.50	
Dry	Custom															
Field Cult	17	37	8.48 gal D	8.96 Ac/hr	0.12	0.11	0.90	0.62	0.20	0.14	0.90	0.59	0.66	0.87	4.88	
Field Stacker	Custom															
Move Bales	17		3.18 gal D	10 Ac/hr	0.11	0.10	0.83	0.21	0.18		0.82		0.60		2.64	
No-till Drill	Custom															
Plant	16	66	3.18 gal D	4.9 Ac/hr	0.00	0.20	0.00	0.42	0.93	0.48	0.85	1.89	1.02	1.62	7.21	
Seeder\Packer	17	Rent	3.18 gal D	3.93 Ac/hr	0.00	0.25	0.00	0.52	0.45		2.06		1.50		4.53	
Spray	Custom															
Spray	Custom															
Spray in tandem		77		9.62 Ac/hr	0.00	0.10	0.00			0.10		0.32		0.34	0.76	
Sprayer	17	75	3.18 gal D	7.8 Ac/hr	0.14	0.13	1.05	0.27	0.23	0.05	1.07	1.07	0.78	0.91	5.43	
Spread Fert.	17	Rent	3.18 gal D	16.04 Ac/hr	0.07	0.06	0.53	0.13	0.11		0.49		0.36		1.62	
Stack Bales	16	103	3.18 gal D	9 Ac/hr	0.12	0.11	0.90	0.23	0.51	1.24	0.47	4.18	0.56	4.90	12.99	
Truck	Custom															
Windrow	16	103	3.18 gal D	5.7 Ac/hr	0.20	0.18	1.50	0.38	0.84	1.24	0.77	4.18	0.92	4.90	14.72	

Diesel@ \$0.60 /gal

If operation rate is other than Ac/hr  
costs shown above are for:

100 bushels/acre  
10 Acre Inches  
1 tons/acre

Budgeted Production Costs Summary  
East Central Nebraska 1999

Budget Crop Description	E1 Corn Grain Gravity Irrig	E2 Corn Grain Pivot Irrig	E3 Soybean Pivot Irrig	E4 Corn Dryland	E5 Corn Notill Dryland	E6 Sorghum Notill Dryland	E7 Soybean Dryland
Yield	150.0 Bu	150.0 Bu	50.0 Bu	100.0 Bu	110.0 Bu	80.0 Bu	40.0 Bu
	Corn	Corn	Soybeans	Corn	Corn	Grain Sorghum	Soybeans
Mgt Fee/unit	\$0.25	\$0.25	\$0.61	\$0.25	\$0.25	\$0.23	\$0.61
Land Invest.	\$2,480	\$2,480	\$2,480	\$1,480	\$1,480	\$1,480	\$1,480
Unimp.	2,153	2,153	2,153	1,480	1,480	1,480	1,480
Irrig	327	327	327				
Mach Invest	\$268.36	\$256.68	\$242.58	\$258.06	\$231.75	\$239.30	\$236.42
Op Cost/ac	\$169.60	\$183.74	\$131.36	\$105.46	\$106.05	\$84.10	\$45.71
Overhead	8.48	9.19	6.57	5.27	5.30	4.21	2.29
Unpaid Mgt	37.50	37.50	30.50	25.00	27.50	18.40	24.40
Land Interest	79.67	79.67	79.67	71.04	71.04	71.04	71.04
Irrig Interest	12.09	12.09	12.09				
RE Taxes	\$43.40	\$43.40	\$43.40	\$25.90	\$25.90	\$25.90	\$25.90
Irrig Deprec	32.42	32.42	32.42	32.42	32.42	32.42	32.42
Land Subtotal	\$167.58	\$167.58	\$167.58	\$96.94	\$96.94	\$96.94	\$96.94
Mach. Interest	\$17.44	\$16.68	\$15.77	\$16.77	\$15.06	\$15.55	\$15.37
Mach. Deprec	22.94	22.19	22.19	22.39	20.61	21.92	21.94
Mach. Subtotal	\$40.38	\$38.87	\$37.95	\$39.17	\$35.68	\$37.48	\$37.30
Total Owner Costs	\$207.96	\$206.45	\$205.53	\$136.11	\$132.62	\$134.42	\$134.24
Etab Costs							
Years							
Per Year							
Total Cost/ac	\$423.54	\$436.88	\$373.96	\$271.84	\$271.47	\$241.13	\$206.64
Total Cost/unit	\$2.82	\$2.91	\$7.48	\$2.72	\$2.47	\$3.01	\$5.17

Budgeted Production Costs Summary  
East Central Nebraska 1999 (Con't)

Budget Crop Description	E8 Soybeans Notill Dryland	E9 Wheat	E10 Alfalfa Fall Estab	E11 Alfalfa Spring Estab	E12 Alfalfa Large bale Dryland	E13 Corn Silage Pivot Irrig	E14 Oats Dryland
Yield	42.0 Bu	45.0 Bu		2.3 Ton	3.5 Ton	20.0 Ton	70.0 Bu
Mgt Fee/unit	Soybeans \$0.61	Wheat \$0.35	Alfalfa	Alfalfa \$6.00	Hay \$6.00	Silage \$2.00	Oats \$0.16
Land Invest.	\$1,480	\$1,480	\$1,480	\$1,480	\$1,480	\$1,480	\$1,480
Unimp. Irrig	1,480	1,480	1,480	1,480	1,480	1,153 327	1,480
Mach Invest	\$131.97	\$209.80	\$84.52	\$411.81	\$436.24	\$154.96	\$279.78
Op Cost/ac	\$79.32	\$53.19	\$80.69	\$129.11	\$48.01	\$254.03	\$62.11
Overhead	3.97	2.66	4.03	6.46	2.40	12.70	3.11
Unpaid Mgt	25.62	15.75		13.50	21.00	40.00	11.20
Land Interest	71.04	71.04		71.04	71.04	55.35	71.04
Irrig Interest						15.69	
RE Taxes	\$25.90	\$25.90		\$25.90	\$25.90	\$25.90	\$25.90
Irrig Deprec	32.42	32.42	32.42	32.42	32.42	32.42	32.42
Land Subtotal	\$96.94	\$96.94		\$96.94	\$96.94	\$129.36	\$96.94
Mach. Interest	\$8.58	\$13.64	\$5.49	\$26.77	\$28.36	\$10.07	\$18.19
Mach. Deprec	14.79	20.44	7.22	25.94	25.37	10.58	25.39
Mach. Subtotal	\$23.37	\$34.08	\$12.71	\$52.71	\$53.73	\$20.65	\$43.58
Total Owner Costs	\$120.31	\$131.02	\$12.71	\$149.65	\$150.67	\$150.01	\$140.52
Estab Costs					\$97.43		
Years					4		
Per Year					\$24.36		
Total Cost/ac	\$229.22	\$202.62	\$97.43	\$298.72	\$246.44	\$456.74	\$216.94
Total Cost/unit	\$5.46	\$4.50		\$132.76	\$70.41	\$22.84	\$3.10



E1

Returns Above Operating Costs Budget Worksheet  
 Corn ff Soybeans, Gravity Irrig., Diesel, 148' Head  
 15 Acre-inches 150 Bu Corn

EC  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Apply Anhy	4.9 Ac/hr	0.24	0.20	0.75D	0.36	0.83	1.94	
2 Sprayer .33	11.28 Ac/hr	0.04	0.03	0.06D	0.05	0.05	0.16	
3 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.95	0.48	1.86	
4 Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.88	0.11	1.39	
5 Sprayer .25	11.28 Ac/hr	0.02	0.02	0.05D	0.04	0.05	0.14	
6 Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.88	0.11	1.39	
7 All Irrig.	1000 GPM	1.48	6.73	17.28E	2.42	3.77	23.47	
8 Spray	Custom							
9 Spray	Custom							
10 Combine	3.5 Ac/hr	0.35	0.29	1.85D	2.77	0.28	4.90	
11 Truck	Custom							
12 Auger	2500 Bu/hr	0.07	0.06	0.08D	0.28	0.04	0.40	
13 Dry	Custom							

Subtotal 2.90 Hrs 21.30 8.63 5.72 \$35.65

Diesel 6.09 Gal @ \$0.60 \$3.65  
 Electricity 448.69 KWH @ \$0.038 \$17.05

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	3	0.33	bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	1	155	lb N	0.13	20.15	33.15	
	18-46-0	3	100	lb	0.13	13.00		
Chemical	2,4-D Ester .33	2	1	pt	2.22	0.73	13.39	
	Bicep II	3	1	qt	8.73	8.73		
	Spirit .25	5	1	oz	11.25	2.81		
	Dipel ES .33	8	0.6125	pt	4.95	1.00		
	Lorsban 4E .10	9	0.15	pt	7.50	0.11		
Custom	Aerial Spray	8	0.33	acre	4.50	1.49	24.44	
	Aerial Spray	9	0.1	acre	4.50	0.45		
	Truck	11	150	bu	0.05	7.50		
	Drying	13	150	bu	0.10	15.00		

Subtotal \$104.30  
 Total Operating Costs excluding Interest & Unpaid Labor \$139.95  
 Interest on Oper. Capital \$139.95 @ 8.5% for 8 Months 7.93  
 Unpaid Labor 2.90 Hours @ \$7.50 /hr 21.72  
 Total Operating Costs \$169.60

## Projected Returns

Corn 150 Bu @  
 Crop Residue 2.5 AUM @

Total Returns  
 Net Return above Operating Costs

E2

Returns Above Operating Costs Budget Worksheet  
 Corn, following Soybeans, Pivot Irrig, Elec, 281' Head  
 10 Acre-inches 150 Bu Corn

EC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.59D	0.29	0.83		1.71	
2 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.20	0.14		0.96	
3 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.95	0.48		1.86	
4 Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.88	0.11		1.39	
5 Sprayer	19.7 Ac/hr	0.06	0.05	0.11D	0.09	0.05		0.25	
6 All Irrig.	800 GPM	0.34	5.61	14.40E	2.02	3.14		19.56	
7 Spray	Custom								
8 Combine	3.44 Ac/hr	0.35	0.29	1.88D	2.82	0.28		4.98	
9 Truck	Custom								
10 Auger	2500 Bu/hr	0.07	0.06	0.08D	0.28	0.04		0.40	
11 Dry	Custom								

Subtotal 1.61 Hrs 18.51 7.53 5.07 \$31.11

Diesel 6.19 Gal @ \$0.60 \$3.72  
 Electricity 374.02 KWH @ \$0.038 \$14.21

Materials & Services		Operation #	Rate per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	4	0.33	bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	1	100	lb N	0.13	13.00	21.10	
	10-34-0	3	6	gal	1.35	8.10		
Chemicals	Bicep II	3	2.1	qt	8.73	18.33	29.35	
	Lorsban 4E .50	3	0.5	pt	7.50	1.88		
	Exceed .50	5	1	oz	11.20	5.60		
	Pounce .33	7	8	oz	1.34	3.54		
Custom	Aerial Spray .3	7	0.33	acre	4.50	0.49	22.99	
	Truck	9	150	bu	0.05	7.50		
	Drying	11	150	bu	0.10	15.00		
Rent	Anhy Applicator	1	1	acre	1.50	1.50	1.50	
Other	Hookup Charge	6	0.77	Kwh	30.00	23.10	23.10	
Subtotal							\$131.37	
Total Operating Costs excluding Interest & Unpaid Labor							\$162.47	
Interest on Oper. Capital		\$162.47 @ 8.5% for 8 Months					9.21	
Unpaid Labor		1.61 Hours @ \$7.50 /hr					12.06	
Total Operating Costs							\$183.74	

## Projected Returns

Corn 150 Bu @  
 Crop Residue 3 AUM @

Total Returns

Net Return above Operating Costs



E3

Returns Above Operating Costs Budget Worksheet  
 Soybeans, Pivot Irrig, Elect, 281' Head  
 6 Acre-inches 50 Bu Soybeans

EC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.58D	0.19	0.46	1.23	
2 Spray in tandem	9.62 Ac/hr		0.10			0.10	0.10	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.20	0.14	0.96	
4 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.95	0.48	1.86	
5 Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.88	0.11	1.39	
6 Spray	Custom							
7 All Irrig.	800 GPM	0.20	3.37	8.64E	1.21	1.88	11.73	
8 Combine	3.44 Ac/hr	0.35	0.29	2.19D	2.82	0.48	5.49	
9 Truck	Custom							
Subtotal		1.27 Hrs		12.86	6.25	3.65	\$22.76	

Diesel 6.33 Gal @ \$0.60 \$3.80  
 Electricity 224.68 KWH @ \$0.038 \$8.54

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	STS Soybean	4	1.3 bag	16.50	21.45	\$21.45	
Chemicals	Prowl	2	2.4 pt	3.63	8.71	41.49	
	Command	2	1.6 pt	9.77	15.63		
	Cobra	6	5 oz	1.03	5.15		
	Synchrony	6	0.5 oz	24.00	12.00		
Custom	Truck	9	50 bu	0.05	2.50	6.50	
	Broadcast Spray	6	1 acre	4.00	4.00		
Other	Hookup Charge	7	0.77 Kwh	30.00	23.10	23.10	
Subtotal						\$92.54	
Total Operating Costs excluding Interest & Unpaid Labor						\$115.30	
Interest on Oper. Capital			\$115.30 @ 8.5% for 8 Months			6.53	
Unpaid Labor			1.27 Hours @ \$7.50 /hr			9.53	
Total Operating Costs						\$131.36	

## Projected Returns

Soybeans		50 Bu	@	
Rotation Credits				
1 Discing	@			
40 Nitrogen	@			
7 Corn	@			
Total Returns				
Net Return above Operating Costs				



E4

# Returns Above Operating Costs Budget Worksheet Cont. Corn, Dryland

100 Bu Corn

EC

99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.58D	0.19	0.46		1.23	
2 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.59D	0.29	0.83		1.71	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.20	0.14		0.96	
4 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.95	0.48		1.86	
5 Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.88	0.11		1.39	
6 Spray	Custom								
7 Combine	3.44 Ac/hr	0.35	0.29	1.88D	2.82	0.28		4.98	
8 Truck	Custom								
9 Auger	2500 Bu/hr	0.05	0.04	0.06D	0.19	0.03		0.28	
10 Dry	Custom								

Subtotal 1.31 Hrs 4.56 5.52 2.33 \$12.41

Diesel 6.84 Gal @ \$0.60 \$4.10

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.25 bag	101.00	25.25	\$25.25	
Fertilizer	Anhy Ammonia	2	100 lb N	0.13	13.00	13.00	
Chemicals	Bicep II	4	2 qt	8.73	17.46	22.87	
	Lorsban 4E .50	4	0.5 pt	7.50	1.88		
	Pounce .33	6	8 oz	1.34	3.54		
Custom	Aerial Spray .3	6	0.33 acre	4.50	0.49	15.49	
	Truck	8	100 bu	0.05	5.00		
	Drying	10	100 bu	0.10	10.00		
Rent	Anhy Applicator	2	1 acre	1.50	1.50	1.50	
Subtotal						\$78.11	
Total Operating Costs excluding Interest & Unpaid Labor						\$90.52	
Interest on Oper. Capital \$90.52 @ 8.5% for 8 Months						5.13	
Unpaid Labor 1.31 Hours @ \$7.50 /hr						9.81	
Total Operating Costs						\$105.46	

## Projected Returns

Corn 100 Bu @  
Crop Residue 2.5 AUM @

Total Returns

Net Return above Operating Costs

E5

Returns Above Operating Costs Budget Worksheet  
 No-till Corn in Soybean Residue  
 110 Bu Corn

EC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.59D	0.29	0.83		1.71	
2 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.95	0.48		1.86	
3 Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.88	0.11		1.39	
4 Sprayer	19.7 Ac/hr	0.06	0.05	0.11D	0.09	0.05		0.25	
5 Spray	Custom								
6 Combine	3.44 Ac/hr	0.35	0.29	1.88D	2.82	0.28		4.98	
7 Truck	Custom								
8 Auger	2500 Bu/hr	0.05	0.04	0.06D	0.21	0.03		0.30	
9 Dry	Custom								

Subtotal 1.12 Hrs 3.47 5.24 1.77 \$10.48

Diesel 5.22 Gal @ \$0.60 \$3.13

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	2	0.25	bag	101.00	25.25	\$25.25	
Fertilizer	Anhy Ammonia	1	75	lb N	0.13	9.75	9.75	
Chemicals	Bicep II	2	2.1	qt	8.73	18.33	27.47	
	Exceed .50	4	1	oz	11.20	5.60		
	Pounce .33	5	8	oz	1.34	3.54		
Custom	Aerial Spray .3	5	1	acre	4.50	1.49	17.99	
	Truck	7	110	bu	0.05	5.50		
	Drying	9	110	bu	0.10	11.00		
Rent	Anhy Applicator	1	1	acre	1.50	1.50	1.50	
Subtotal							\$81.96	
Total Operating Costs excluding Interest & Unpaid Labor							\$92.44	
Interest on Oper. Capital \$92.44 @ 8.5% for 8 Months							5.24	
Unpaid Labor 1.12 Hours @ \$7.50 /hr							8.37	
Total Operating Costs							\$106.05	

## Projected Returns

Corn 110 Bu @  
 Crop Residue 2.5 AUM @

Total Returns

Net Return above Operating Costs

E6

Returns Above Operating Costs Budget Worksheet  
 Grain Sorghum, Dryland, No Till  
 80 Bu Grain Sorghum

EC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Spray	Custom							
2 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.20	0.14	0.96	
3 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.95	0.48	1.86	
4 Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.88	0.11	1.39	
5 Sprayer	13.13 Ac/hr	0.10	0.08	0.16D	0.14	0.05	0.35	
6 Spray	Custom							
7 Combine	3.44 Ac/hr	0.35	0.29	2.19D	2.82	0.48	5.49	
8 Truck	Custom							
9 Auger	2500 Bu/hr	0.04	0.03	0.04D	0.15	0.02	0.21	
Subtotal		1.08 Hrs		3.84	5.14	1.27	\$10.25	

Diesel 5.80 Gal @ \$0.60 \$3.48

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sorghum	3	5 lb	1.10	5.50	\$5.50	
Fertilizer	28-0-0	1	60 lb N	0.20	12.00	20.44	
	10-34-0	3	6.25 gal	1.35	8.44		
Chemicals	Bicep II	1	2.1 qt	8.73	18.33	29.10	
	2,4-D Ester	1	1 pt	2.22	2.22		
	Peak .75	5	1 oz	11.25	8.44		
	Pounce .17	6	0.5 oz	1.34	0.11		
Custom	Truck	8	80 bu	0.05	4.00	5.13	
	Aerial Spray .5	6	0.5 acre	4.50	1.13		
Rent	Anhy Applicator	2	1 acre	1.50	1.50	1.50	
Subtotal						\$61.67	
Total Operating Costs excluding Interest & Unpaid Labor						\$71.92	
Interest on Oper. Capital		\$71.92 @ 8.5% for 8 Months				4.08	
Unpaid Labor		1.08 Hours @ \$7.50 /hr				8.10	
Total Operating Costs						\$84.10	

## Projected Returns

Grain Sorghum  
 Crop Residue

80 Bu @  
 2 AUM @

Total Returns

Net Return above Operating Costs



E7

# Returns Above Operating Costs Budget Worksheet Soybeans, Dryland

40 Bu Soybeans

EC  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Disc w/harrow	7.8 Ac/hr	0.16	0.13	0.72D	0.23	0.46	1.41	
2	Field Cult	7.8 Ac/hr		0.13	0.72D	0.23	0.14	1.09	
3	Plant	7.8 Ac/hr	0.16	0.13	0.27D	0.60	0.48	1.35	
4	Cult	4.9 Ac/hr	0.24	0.20	0.43D	0.95	0.11	1.49	
5	Spray	Custom							
6	Combine	3.44 Ac/hr	0.35	0.29	2.19D	2.82	0.48	5.49	
7	Truck	Custom							
Subtotal			0.90 Hrs		4.33	4.83	1.67	\$10.83	

Diesel 6.56 Gal @ \$0.60 \$3.94

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Soybeans w/Inoc	3	1 bag	17.00	17.00	\$17.00	
Chemicals	Betanex	5	0.25 pt	12.19	3.05	3.05	
Custom	Truck	7	40 bu	0.05	2.00	6.00	
	Broadcast Spray	5	1 acre	4.00	4.00		
Subtotal						\$26.05	
Total Operating Costs excluding Interest & Unpaid Labor						\$36.87	
Interest on Oper. Capital			\$36.87 @ 8.5% for 8 Months			2.09	
Unpaid Labor			0.90 Hours @ \$7.50 /hr			6.75	
Total Operating Costs						\$45.71	
Projected Returns							
Soybeans			40 Bu		@		
Total Returns							
Net Return above Operating Costs							

E8

Returns Above Operating Costs Budget Worksheet  
Soybeans following Corn, No-Till Drill  
42 Bu Soybeans

EC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Spray	Custom							
2 No-till Drill	Custom							
3 Combine	3.44 Ac/hr	0.35	0.29	2.19D	2.82	0.48	5.49	
4 Truck	Custom							
Subtotal		0.35 Hrs		2.19	2.82	0.48	\$5.49	

Diesel

3.30 Gal @ \$0.60 \$1.98

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Soybeans w/Inoc	2	1 bag	17.00	17.00	\$17.00	
Chemicals	Dual	1	2.5 pt	8.88	22.20	44.01	
	Sencor DF	1	1 lb	19.20	19.20		
	Canopy	1	1 oz	2.61	2.61		
Custom	Truck	4	42 bu	0.05	2.10	6.10	
	Broadcast Spray	1	1 acre	4.00	4.00		
Subtotal						\$67.11	
Total Operating Costs excluding Interest & Unpaid Labor						\$72.60	
Interest on Oper. Capital		\$72.60 @ 8.5% for 8 Months				4.11	
Unpaid Labor		0.35 Hours @ \$7.50 /hr				2.61	
Total Operating Costs						\$79.32	

Projected Returns

Soybeans

42 Bu

@

Total Returns

Net Return above Operating Costs

E9

Returns Above Operating Costs Budget Worksheet  
Wheat

45 Bu Wheat

EC

99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Drill	9.62 Ac/hr	0.12	0.10	0.38D	0.48	0.55	1.41	
2	Spray	Custom							
3	Combine	3.52 Ac/hr	0.34	0.28	2.14D	2.75	0.48	5.37	
4	Truck	Custom							
Subtotal			0.46 Hrs		2.52	3.23	1.03	\$6.78	

Diesel

3.75 Gal @ \$0.60 \$2.25

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Wheat	1	75 lb	0.20	15.00	\$15.00	
Fertilizer	28-0-0	2	50 lb N	0.20	10.00	20.80	
	10-34-0	1	8 gal	1.35	10.80		
Chemical	Ally	2	0.1 oz	22.75	2.28	2.28	
Custom	Truck	6	45 bu	0.05	2.25	2.25	
Subtotal						\$40.33	
Total Operating Costs excluding Interest & Unpaid Labor						\$47.10	
Interest on Oper. Capital						\$47.10 @ 8.5% for 8 Months	2.67
Unpaid Labor						0.46 Hours @ \$7.50 /hr	3.42
Total Operating Costs						\$53.19	

Projected Returns

Wheat

45 Bu

@

Rotation Credits

2 Straw

@

Total Returns

Net Return above Operating Costs



E10

Returns Above Operating Costs Budget Worksheet  
Alfalfa Establishment, fall seeded

EC  
99

		Cost per Acre							99
Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub- Total	Your Estimate	
		Labor	Mach		Power	Impl			
1 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.58D	0.19	0.46	1.23		
2 Spread Fert.	6.22 Ac/hr	0.19	0.16	0.34D	0.29		0.63		
3 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.58D	0.19	0.46	1.23		
4 Seeder\Packer	3.52 Ac/hr	0.34	0.28	0.60D	0.51		1.11		
Subtotal		0.77 Hrs		2.10	1.18	0.92	\$4.20		

Diesel 3.10 Gal @ \$0.60 \$1.86

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Alfalfa w/inoc	4	12 lb	3.68	44.16	\$44.16	
Fertilizer	0-46-0	2	60 lb P205	0.28	16.80	16.80	
Rent	BrdcastSpreader	2	1 acre	2.00	2.00	5.75	
	Seeder-Packer	4	1 acre	3.75	3.75		
Subtotal						\$66.71	
Total Operating Costs excluding Interest & Unpaid Labor						\$70.91	
Interest on Oper. Capital			\$70.91 @ 8.5% for 8 Months			4.02	
Unpaid Labor			0.77 Hours @ \$7.50 /hr			5.76	
Total Operating Costs						\$80.69	

E11

Returns Above Operating Costs Budget Worksheet  
Alfalfa Establishment, spring seeded w/herbicide  
2.25 Ton Alfalfa

EC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.13D	0.11			0.24	
2 Sprayer	9.85 Ac/hr	0.12	0.10	0.21D	0.18	0.05		0.44	
3 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.58D	0.19	0.46		1.23	
4 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.20	0.14		0.96	
5 Seeder\Packer	3.93 Ac/hr	0.30	0.25	0.53D	0.45			0.98	
6 Windrow	3.6 Ac/hr	0.34	0.28	0.58D	1.30	1.24		3.12	
7 Bale .50	2.52 Ton/hr	0.54	0.45	0.94D	2.08	2.54		5.56	
8 Move Bales	10 Ac/hr	0.12	0.10	0.21D	0.18			0.39	
9 Windrow	3.6 Ac/hr	0.34	0.28	0.58D	1.30	1.24		3.12	
10 Bale .50	2.52 Ton/hr	0.54	0.45	0.94D	2.08	2.54		5.56	
11 Move Bales	10 Ac/hr	0.12	0.10	0.21D	0.18			0.39	

Subtotal 2.74 Hrs 5.53 8.25 8.21 \$21.99

Diesel 8.36 Gal @ \$0.60 \$5.02

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Alfalfa w/inoc	5	12 lb	3.68	44.16	\$44.16	
Fertilizer	0-46-0	1	60 lb P205	0.28	16.80	16.80	
Chemicals	Eptam 7E	2	3 pt	4.13	12.39	12.39	
Rent	Brdcast Spreader	1	1 acre	2.00	2.00	5.75	
	Seeder-Packer	5	1 acre	3.75	3.75		
Other	Twine	7	1 bale	0.56	0.56	1.68	
	Twine	10	2 bale	0.56	1.12		
Subtotal						\$80.78	
Total Operating Costs excluding Interest & Unpaid Labor						\$102.77	
Interest on Oper. Capital \$102.77 @ 8.5% for 8 Months						5.82	
Unpaid Labor 2.74 Hours @ \$7.50 /hr						20.52	
Total Operating Costs						\$129.11	

Projected Returns

Alfalfa 2.25 Ton @

Total Returns

Net Return above Operating Costs

E12

Returns Above Operating Costs Budget Worksheet  
 Alfalfa Hay, Large Round Bales  
 3.5 Ton Hay

EC  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Windrow	3.6 Ac/hr	0.34	0.28	0.58D	1.30	1.24		3.12	
2 Bale .33	3.92 Ton/hr	0.35	0.29	0.62D	1.37	2.55		4.54	
3 Move Bales	10 Ac/hr	0.12	0.10	0.21D	0.18			0.39	
4 Windrow	3.6 Ac/hr	0.34	0.28	0.58D	1.30	1.24		3.12	
5 Bale .33	3.92 Ton/hr	0.35	0.29	0.62D	1.37	2.55		4.54	
6 Move Bales	10 Ac/hr	0.12	0.10	0.21D	0.18			0.39	
7 Windrow	3.6 Ac/hr	0.34	0.28	0.58D	1.30	1.24		3.12	
8 Bale .34	3.92 Ton/hr	0.36	0.30	0.64D	1.42	2.64		4.70	
9 Move Bales	10 Ac/hr	0.12	0.10	0.21D	0.18			0.39	
Subtotal		2.42 Hrs		4.25	8.60	11.46		\$24.31	

Diesel

6.42 Gal @ \$0.60 \$3.85

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Other	Twine	2	3 bale	0.56	1.68	\$3.92	
	Twine	5	2 bale	0.56	1.12		
	Twine	8	2 bale	0.56	1.12		
Subtotal						\$3.92	
Total Operating Costs excluding Interest & Unpaid Labor						\$28.23	
Interest on Oper. Capital		\$28.23 @	8.5%	for 8 Months		1.60	
Unpaid Labor		2.42 Hours @	\$7.50 /hr			18.18	
Total Operating Costs						\$48.01	

Projected Returns

Hay

3.5 Ton

@

Total Returns

Net Return above Operating Costs



E13

Returns Above Operating Costs Budget Worksheet  
 Corn Silage, Pivot Irrig, Diesel, 281' Head  
 8 Acre-inches 20 Ton Silage

EC  
99

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Apply Anhy	6.22 Ac/hr	0.19	0.16	0.59D	0.29	0.83	1.71	
2	Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.17	0.46	1.16	
3	Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.20	0.14	0.96	
4	Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.95	0.48	1.86	
5	Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.88	0.11	1.39	
6	Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.88	0.11	1.39	
7	All Irrig.	800 GPM	0.27	4.49	11.52E	1.62	2.51	15.65	
8	Chop	Custom							
9	Truck	Custom							

Subtotal 1.40 Hrs 14.49 4.99 4.64 \$24.12

Diesel 4.43 Gal @ \$0.60 \$2.66  
 Electricity 299.35 KWH @ \$0.038 \$11.38

Materials & Services		Operation #	Rate per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	4	0.33 bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	1	150 lb N	0.13	19.50	26.00	
	18-46-0	4	50 lb	0.13	6.50		
Chemicals	Atrazine 90DF	4	1.8 lb	2.87	5.17	7.04	
	Lorsban 4E .50	4	0.5 pt	7.50	1.88		
Custom	Chop Silage	8	20 ton	4.50	90.00	140.00	
	Truck Silage	9	20 ton	2.50	50.00		
Subtotal						\$206.37	
Total Operating Costs excluding Interest & Unpaid Labor						\$230.49	
Interest on Oper. Capital \$230.49 @ 8.5% for 8 Months						13.06	
Unpaid Labor 1.40 Hours @ \$7.50 /hr						10.48	
Total Operating Costs						\$254.03	

Projected Returns

Silage 20 Ton @

Total Returns

Net Return above Operating Costs

E14

# Returns Above Operating Costs Budget Worksheet Oats, Dryland

70 Bu Oats

EC  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs Power Impl	Sub- Total	Your Estimate
		Labor	Mach				
1 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.58D	0.19 0.46	1.23	
2 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.13D	0.11	0.24	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.20 0.14	0.96	
4 Drill	3.52 Ac/hr	0.34	0.28	1.04D	1.32 0.55	2.91	
5 Combine	3.44 Ac/hr	0.35	0.29	2.19D	2.82 0.48	5.49	
6 Truck	Custom						
7 Auger	2500 Bu/hr	0.04	0.03	0.04D	0.13 0.02	0.19	

Subtotal 1.04 Hrs 4.60 4.77 1.65 \$11.02

Diesel 6.90 Gal @ \$0.60 \$4.14

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Oats	4	2.3 bu	5.50	12.65	\$12.65	
Fertilizer	46-0-0	2	60 lb N	0.23	13.80	22.20	
	0-46-0	2	30 lb P2O5	0.28	8.40		
Custom	Truck	6	70 bu	0.05	3.50	3.50	
Rent	Brdcast Spreader	2	1 acre	2.00	2.00	2.00	
Subtotal						\$40.35	
Total Operating Costs excluding Interest & Unpaid Labor						\$51.37	
Interest on Oper. Capital \$51.37 @ 8.5% for 8 Months						2.91	
Unpaid Labor 1.04 Hours @ \$7.50 /hr						7.83	
Total Operating Costs						\$62.11	

Projected Returns

Oats

70 Bu

@

Total Returns

Net Return above Operating Costs

# Description of the Crop Budgets for Southeast Nebraska

The farms representing this area of Nebraska are flat to rolling hills of Loess parent materials consisting of Crete, Wymore, Sharpsburg, Marshall, and Pawnee soil associations.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

SE

## 1999 Machinery List-- South Eastern Nebraska Current

<u>Code</u>	<u>Machine</u>	<u>Age at Purchase</u>	<u>Ann'l Use</u>	<u>Yrs to Trade</u>	<u>Trade Value</u>	<u>Repairs</u>
Power Units						
16	Tractor 130 hp diesel MFWD	10 yr 6,000 hr	\$70,000 500 hr	30	\$6,871	\$4.41 /hr
17	Tractor 160 hp diesel MFWD	0 yr 0 hr	82,632 600 hr	10	26,519	1.49 /hr
84	Combine 185 hp	0 yr 0 hr	113,000 200 hr	10	31,193	9.69 /hr
403	Pump 105 HP Diesel 200' Lift(Pivot)	0 yr 0 hr	48,883 900 hr	17	0	0.69 /hr
Implements						
30	Tandem Disk 21 Ft Fold	0 yr 0 ac	\$18,506 1,000 ac	15	\$4,737	\$0.46 /ac
37	Field Cultivator 28 Ft	0 yr 0 ac	13,097 750 ac	15	6,505	0.14 /ac
38	Cultivator 6-30	0 yr 0 ac	4,204 750 ac	10	2,177	0.09 /ac
62	Presswheel Drill 16 Ft	0 yr 0 ac	24,216 250 ac	15	8,558	0.65 /ac
66	Row Crop Planter 6-30	0 yr 0 ac	16,711 500 ac	10	7,262	0.48 /ac
73	Anhydrous Appl. 21 Ft	0 yr 0 ac	13,220 600 ac	20	3,742	1.02 /ac
75	Boom Sprayer 50 Ft	0 yr 0 ac	5,653 450 ac	20	1,600	0.07 /ac
84	Combine 185 hp	0 yr 0 hr	113,000 200 hr	10	31,193	9.69 /hr
87	Corn Head 6-30	0 yr 0 ac	26,055 760 ac	10	4,005	0.48 /ac
111	Grain Auger 6"x61'	0 yr 0 bu000	2,550 150 bu000	20	241	0.26 /bu000
500	Diesel Pivot 35psi	0 yr 0 hr	34,700 900 hr	15	0	0.56 /hr



1999

## Operations List South East Nebraska

SE Operation	Power Imp		Operation Rate	Hrs / Acre	Cost per Acre										THII@ 6.5%	
	Code	Code Energy/hr			Labor	Mach	\$7.50	Fuel@ Lube	Fuel& Repairs	Deprec	Power Impl	Power Impl	Power Impl	Power Impl		
All Irrig.	403	500	4.72 gal D	800 GPM	6.17	5.61	46.28	16.09	3.87 3.14	19.74 17.58	12.84 9.24	128.79				
Apply Anhy	17	73	5.57 gal D	6.22 Ac/hr	0.18	0.16	1.35	0.59	0.24 1.02	1.50 0.79	0.99 0.94	7.43				
Apply Anhy	17	Rent	5.57 gal D	6.22 Ac/hr	0.18	0.16	1.35	0.59	0.24	1.50	0.99	4.67				
Auger	16	111	2.12 gal D	2,500 Bu/hr	0.04	0.04	0.30	0.06	0.18 0.03	0.17 0.08	0.21 0.06	1.08				
Bale	Custom															
Broad. Spray	16	75	3.18 gal D	10.2 Ac/hr	0.11	0.10	0.83	0.21	0.44 0.07	0.42 0.45	0.51 0.54	3.47				
Chop	Custom															
Combine	84	87	11.40 gal D	3.44 Ac/hr	0.32	0.29	2.40	2.18	2.81 0.48	11.86 2.90	7.18 1.38	31.19				
Combine	84	89	9.81 gal D	3.44 Ac/hr	0.00	0.29	0.00	1.88	2.81 0.13	11.86 1.19	7.18 0.56	25.62				
Disc w/harrow	17	30	8.48 gal D	9.62 Ac/hr	0.00	0.10	0.00	0.56	0.15 0.46	0.94 0.92	0.62 0.79	4.43				
Drill Grain 1/2	16	62	5.57 gal D	3.52 Ac/hr	0.31	0.28	2.33	1.03	1.23 0.65	1.18 2.09	1.44 2.20	12.14				
Dry	Custom															
Field Cult	17	37	8.48 gal D	8.96 Ac/hr	0.12	0.11	0.90	0.62	0.16 0.14	1.03 0.59	0.68 0.87	4.99				
Move Bales	Custom															
Pack	17		3.18 gal D	3.93 Ac/hr	0.00	0.25	0.00	0.52	0.37	2.34	1.55	4.78				
Pack	17		3.18 gal D	3.93 Ac/hr	0.00	0.25	0.00	0.52	0.37	2.34	1.55	4.78				
Plant	16	66	3.18 gal D	4.9 Ac/hr	0.00	0.20	0.00	0.42	0.88 0.48	0.84 1.89	1.03 1.62	7.16				
Row Crop Cult	16	38	3.18 gal D	5.29 Ac/hr	0.21	0.19	1.58	0.40	0.84 0.09	0.80 0.27	0.98 0.29	5.24				
Spray	Custom															
Spread Fert.	16		3.18 gal D	6.22 Ac/hr	0.18	0.16	1.35	0.34	0.71	0.67	0.82	3.89				
Truck	Custom															
Windrow	Custom															

Diesel@ \$0.60 /gal

If operation rate is other than Ac/hr  
costs shown above are for:

100 bushels/acre  
10 Acre Inches  
1 tons/acre

Budgeted Production Costs Summary  
Southeast Nebraska, 1999

Budget Crop Description	E16 Corn Pivot Irrig	E17 Corn Silage Pivot Irrig	E18 Corn Dryland	E19 Sorghum Dryland	E20 Sorghum Silage Dryland	E21 Soybean Dryland	E22 Wheat
Yield	150.0 Bu	20.0 Ton	90.0 Bu	90.0 Bu	14.0 Ton	40.0 Bu	45.0 Bu
	Corn	Silage	Corn	Sorghum	Silage	Soybeans	Wheat
Mgt Fee/unit	\$0.25	\$2.00	\$0.25	\$0.23	\$2.00	\$0.61	\$0.35
Land Invest.	\$2,060	\$2,060	\$960	\$960	\$960	\$960	\$960
Unimp.	1,720	1,720	960	960	960	960	960
Irrig	340	340					
Mach Invest	\$276.88	\$194.82	\$255.66	\$227.75	\$143.72	\$224.90	\$220.80
Op Cost/ac	\$164.48	\$261.35	\$99.60	\$43.03	\$161.07	\$46.03	\$59.36
Overhead	8.22	13.07	4.98	2.15	8.05	2.30	2.97
Unpaid Mgt	37.50	40.00	22.50	20.70	28.00	24.40	15.75
Land Interest	61.93	61.93	48.00	48.00	48.00	48.00	48.00
Irrig Interest	12.23	12.23					
RE Taxes	\$36.05	\$36.05	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80
Irrig Deprec	37.32	37.32					
Land Subtotal	\$147.53	\$147.53	\$64.80	\$64.80	\$64.80	\$64.80	\$64.80
Mach. Interest	\$18.00	\$12.66	\$16.62	\$14.80	\$9.34	\$14.62	\$14.35
Mach. Deprec	24.86	15.15	23.69	20.47	10.98	20.32	19.79
Mach. Subtotal	\$42.85	\$27.82	\$40.30	\$35.28	\$20.33	\$34.94	\$34.14
Total Owner Costs	\$190.38	\$175.35	\$105.10	\$100.08	\$85.13	\$99.74	\$98.94
Estab Costs							
Years							
Per Year							
Total Cost/ac	\$400.58	\$489.77	\$232.18	\$165.96	\$282.25	\$172.47	\$177.02
Total Cost/unit	\$2.67	\$24.49	\$2.58	\$1.84	\$20.16	\$4.31	\$3.93

E16

Returns Above Operating Costs Budget Worksheet  
 Cont. Corn, Pivot Irrig, Diesel, 281' Head  
 8 Acre-inches 150 Bu Corn

SE  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.59D	0.24			0.83	
2 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.46		1.13	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.17	0.14		0.93	
4 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.90	0.48		1.81	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.83	0.09		1.32	
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.83	0.09		1.32	
7 Broad. Spray	Custom								
8 All Irrig.	800 GPM	0.27	4.49	12.88D	3.10	2.51		18.49	
9 Combine	3.44 Ac/hr	0.35	0.29	2.19D	2.82	0.48		5.49	
10 Truck	Custom								
11 Auger	2500 Bu/hr	0.07	0.06	0.08D	0.26	0.04		0.38	
12 Dry	Custom								

Subtotal 1.82 Hrs 18.12 9.29 4.28 \$31.69

Diesel 29.06 Gal @ \$0.60 \$17.43

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.33 bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	1	140 lb N	0.13	18.20	24.70	
	18-46-0	4	50 lb	0.13	6.50		
Chemicals	Bicep II	4	2 qt	8.73	17.46	27.72	
	Lorsban 15G .50	4	8 lb	1.68	6.72		
	Pounce .33	7	8 oz	1.34	3.54		
Custom	Truck	10	150 bu	0.05	7.50	23.82	
	Drying	12	150 bu	0.10	15.00		
	Broadcast Spray	7	1 acre	4.00	1.32		
Rent	Anhy Applicator	1	1 acre	1.50	1.50	1.50	
Subtotal						\$111.07	
Total Operating Costs excluding Interest & Unpaid Labor						\$142.76	
Interest on Oper. Capital \$142.76 @ 8.5% for 8 Months						8.09	
Unpaid Labor 1.82 Hours @ \$7.50 /hr						13.63	
Total Operating Costs						\$164.48	

## Projected Returns

Corn	150 Bu	@	
Crop Residue	3 AUM	@	
Total Returns			
Net Return above Operating Costs			



E17

Returns Above Operating Costs Budget Worksheet  
 Corn Silage, Pivot Irrig, Diesel, 281' Head  
 8 Acre-inches 20 Ton Silage

SE  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.59D	0.24		0.83	
2 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.46	1.13	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.17	0.14	0.93	
4 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.90	0.48	1.81	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.83	0.09	1.32	
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.83	0.09	1.32	
7 All Irrig.	800 GPM	0.27	4.49	12.88D	3.10	2.51	18.49	
8 Chop	Custom							
9 Truck	Custom							
10 Pack	35 Ton/hr	0.68	0.57	1.20D	0.85		2.05	
Subtotal		2.08 Hrs		17.05	7.06	3.77	\$27.88	

Diesel 27.44 Gal @ \$0.60 \$16.46

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.33	bag	101.00	33.33	\$33.33	
Fertilizer	Anhy Ammonia	1	150	lb N	0.13	19.50	26.00	
	18-46-0	4	50	lb	0.13	6.50		
Chemicals	Atrazine 90DF	4	1.8	lb	2.87	5.17	5.35	
	Lorsban 4E .05	4	0.5	pt	7.50	0.19		
Custom	Chop Silage	8	20	ton	4.50	90.00	140.00	
	Truck Silage	9	20	ton	2.50	50.00		
Subtotal							\$204.68	
Total Operating Costs excluding Interest & Unpaid Labor							\$232.56	
Interest on Oper. Capital		\$232.56 @ 8.5% for 8 Months					13.18	
Unpaid Labor		2.08 Hours @ \$7.50 /hr					15.61	
Total Operating Costs							\$261.35	

## Projected Returns

Silage

20 Ton

@

## Total Returns

## Net Return above Operating Costs

E18

# Returns Above Operating Costs Budget Worksheet Cont. Corn, Dryland

90 Bu Corn

SE  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Repairs			Sub- Total	Your Estimate
		Labor	Mach	Lube	Power	Impl		
1 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.59D	0.24		0.83	
2 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.46	1.13	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.17	0.14	0.93	
4 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.90	0.48	1.81	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.83	0.09	1.32	
6 Combine	3.44 Ac/hr	0.35	0.29	2.19D	2.82	0.48	5.49	
7 Truck	Custom							
8 Auger	2500 Bu/hr	0.05	0.04	0.05D	0.16	0.03	0.24	
9 Dry	Custom							

Subtotal 1.30 Hrs 4.81 5.26 1.67 \$11.74

Diesel 7.22 Gal @ \$0.60 \$4.33

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.25 bag	101.00	25.25	\$25.25	
Fertilizer	Anhy Ammonia	1	90 lb N	0.13	11.70	11.70	
Chemicals	Bicep II	4	2 qt	8.73	17.46	22.87	
	Lorsban 4E .50	4	0.5 pt	7.50	1.88		
	Pounce .33	4	8 oz	1.34	3.54		
Custom	Truck	7	90 bu	0.05	4.50	13.50	
	Drying	9	90 bu	0.10	9.00		
Subtotal						\$73.32	
Total Operating Costs excluding Interest & Unpaid Labor						\$85.06	
Interest on Oper. Capital		\$85.06 @ 8.5% for 8 Months				4.82	
Unpaid Labor		1.30 Hours @ \$7.50 /hr				9.72	
Total Operating Costs						\$99.60	

## Projected Returns

Corn 90 Bu @  
Crop Residue 2 AUM @

Total Returns

Net Return above Operating Costs

E19

# Returns Above Operating Costs Budget Worksheet Grain Sorghum, Dryland

90 Bu Sorghum

SE  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Repairs			Sub- Total	Your Estimate
		Labor	Mach	Lube	Power	Impl		
1 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.46	1.13	
2 Apply Anhy	Rent							
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.17	0.14	0.93	
4 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.90	0.48	1.81	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.83	0.09	1.32	
6 Spray	Custom							
7 Combine	3.44 Ac/hr	0.35	0.29	1.88D	2.82	0.13	4.83	
8 Truck	Custom							
9 Auger	2500 Bu/hr	0.05	0.04	0.05D	0.16	0.03	0.24	

Subtotal 1.10 Hrs 3.91 5.02 1.32 \$10.25

Diesel 5.86 Gal @ \$0.60 \$3.52

Materials & Services	Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed Sorghum Safened	4	5 lb	1.26	6.30	\$6.30	
Fertilizer Anhy Ammonia	2	70 lb N	0.13	9.10	9.10	
Chemicals Pounce .17	6	0.5 oz	1.34	0.11	0.11	
Custom Truck	8	90 bu	0.05	4.50	5.63	
Aerial Spray .5	6	0.5 acre	4.50	1.13		
Rent Anhy Applicator	2	1 acre	1.50	1.50	1.50	
Subtotal					\$22.64	
Total Operating Costs excluding Interest & Unpaid Labor						\$32.89
Interest on Oper. Capital \$32.89 @ 8.5% for 8 Months						1.86
Unpaid Labor 1.10 Hours @ \$7.50 /hr						8.28
Total Operating Costs						\$43.03

## Projected Returns

Sorghum 90 Bu @  
Crop Residue 2 AUM @

Total Returns

Net Return above Operating Costs



E20

Returns Above Operating Costs Budget Worksheet  
Sorghum Silage, Dryland

14 Ton Silage

SE

99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.46	1.13	
2 Apply Anhy	Rent							
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.17	0.14	0.93	
4 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.90	0.48	1.81	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.83	0.09	1.32	
6 Spray	Custom							
7 Chop	Custom							
8 Truck	Custom							
9 Pack	35 Ton/hr	0.48	0.40	0.84D	0.59		1.43	
Subtotal		1.19 Hrs		2.82	2.63	1.17	\$6.62	

Diesel

4.21 Gal @ \$0.60 \$2.52

Materials & Services		Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sorghum Safened	4	5 lb	1.26	6.30	\$6.30	
Fertilizer	Anhy Ammonia	2	80 lb N	0.13	10.40	10.40	
Chemicals	Bicep II	4	2.2 qt	8.73	19.21	20.06	
	Parathion 4E .5	4	0.5 lb	3.41	0.85		
Custom	Chop Silage	7	14 ton	4.50	63.00	99.13	
	Truck Silage	8	14 ton	2.50	35.00		
	Aerial Spray .5	6	0.5 acre	4.50	1.13		
Rent	Anhy Applicator	2	1 acre	1.50	1.50	1.50	
Subtotal						\$137.38	
Total Operating Costs excluding Interest & Unpaid Labor						\$144.00	
Interest on Oper. Capital \$144.00 @ 8.5% for 8 Months						8.16	
Unpaid Labor 1.19 Hours @ \$7.50 /hr						8.91	
Total Operating Costs						\$161.07	

Projected Returns

Silage

14 Ton

@

Total Returns

Net Return above Operating Costs

E21

# Returns Above Operating Costs Budget Worksheet Soybeans, Dryland

40 Bu Soybeans

SE  
99

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub- Total	Your Estimate
		Labor	Mach		Power	Impl		
1 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.46	1.13	
2 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.17	0.14	0.93	
3 Plant	4.9 Ac/hr	0.24	0.20	0.43D	0.90	0.48	1.81	
4 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.40D	0.83	0.09	1.32	
5 Spray	Custom							
6 Combine	3.44 Ac/hr	0.35	0.29	1.88D	2.82	0.13	4.83	
7 Truck	Custom							
Subtotal		1.06 Hrs		3.86	4.86	1.30	\$10.02	

Diesel 5.78 Gal @ \$0.60 \$3.47

Materials & Services	Oper- tion #	Rate per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed Soybeans w/Inoc	3	1 bag	17.00	17.00	\$17.00	
Chemicals Betanex	5	0.25 pt	12.19	3.05	3.05	
Custom Truck	7	40 bu	0.05	2.00	6.00	
Broadcast Spray	5	1 acre	4.00	4.00		
Subtotal					\$26.05	
Total Operating Costs excluding Interest & Unpaid Labor					\$36.07	
Interest on Oper. Capital		\$36.07 @ 8.5% for 8 Months			2.04	
Unpaid Labor		1.06 Hours @ \$7.50 /hr			7.92	
Total Operating Costs					\$46.03	

## Projected Returns

Soybeans

40 Bu

@

Total Returns

Net Return above Operating Costs

E22

Returns Above Operating Costs Budget Worksheet  
Wheat

45 Bu Wheat

SE  
99

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.53D	0.14	0.46		1.13	
2 Apply Anhy	Rent								
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.62D	0.17	0.14		0.93	
4 Drill Grain 1/2	3.52 Ac/hr	0.34	0.28	1.04D	1.25	0.65		2.94	
5 Combine	3.44 Ac/hr	0.35	0.29	1.88D	2.82	0.13		4.83	
6 Truck	Custom								

Subtotal 0.92 Hrs 4.07 4.38 1.38 \$9.83

Diesel 6.10 Gal @ \$0.60 \$3.66

Materials & Services		Oper- tion #	Rate per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	4	75	lb	0.20	15.00	\$15.00	
Fertilizer	Anhy Ammonia	2	50	lb N	0.13	6.50	21.04	
	10-34-0	2	10.77	gal	1.35	14.54		
Custom	Truck	6	45	bu	0.05	2.25	2.25	
Rent	Anhy Applicator	2	1	acre	1.50	1.50	1.50	
Subtotal							\$39.79	
Total Operating Costs excluding Interest & Unpaid Labor							\$49.62	
Interest on Oper. Capital		\$49.62 @ 8.5% for 8 Months					2.81	
Unpaid Labor		0.92 Hours @ \$7.50 /hr					6.93	
Total Operating Costs							\$59.36	

## Projected Returns

Wheat

45 Bu

@

Total Returns

Net Return above Operating Costs